

GENERAL NOTES:

- ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH 2018 UNIFORM MECHANICAL CODE W/ SOUTHERN NV AMENDMENTS 2018 INTERNATIONAL ENERGY CODE W/ SOUTHERN NV AMENDMENTS 2021 INTERNATIONAL FIRE CODE WITH CITY OF HENDERSON AMENDMENTS.
- INDICATES EXISTING. INDICATES NEW. DASHED INDICATES DEMO. IF THERE ARE ANY DISCREPANCIES AS TO WHAT IS NEW AND WHAT IS EXISTING, CONTRACTOR IS TO CONTACT THE ARCHITECT AND/OR MECHANICAL ENGINEER.
- DUCTWORK SHALL BE INSULATED AS FOLLOWS:

RTU RECTANGULAR DUCTWORK	LINED / WRAPPED	R-6
MANU RECTANGULAR DUCTWORK	WRAPPED	R-6
ROUND DUCTWORK	WRAPPED	R-6
ROUND FLEXIBLE DUCT (MAX 5' LONG)	N/A	R-6
EXHAUST DUCT	PER SHOPS ABOVE	R-6
DUCTWORK INSTALLED OUTSIDE	DOUBLE WALL (ALUM. JACKET)	R-12

*CREASE DUCT REQUIRES TO LAYERS OF 3M615+ WRAP (OR EQUIVALENT).
- M.C. SHALL PROVIDE / INSTALL NEW INSULATION WHERE EXISTING INSULATION IS DAMAGED, MISSING, OR IS NEEDED DUE TO A CHANGE FROM EXPOSED TO CONCEALED DUCT INSTALLATION.
- PROVIDE / INSTALL INTERNALLY INSULATED DUCT LINER A MINIMUM OF 10 FEET FROM HVAC EQUIPMENT IN SUPPLY AND RETURN AIR DUCT WORK (EXCEPT WHERE UNIT HAS EVAPORATIVE COOLING). SEE DETAIL HSD-3, M5.1.
- ALL DUCTWORK SERVING TYPE I HOODS IS TO BE 16 GAUGE, WELDED CARBON STEEL OR #18 STAINLESS STEEL AND SHALL BE FIRE WRAPPED WITH 2 LAYERS OF 3M 615+ (ASTM E2336) FIRE BARRIER WRAP TO MEET CODE. ALTERNATE SUBMITTALS SHALL INCLUDE LISTING, ICC-ES DOCUMENTATION, AND INSTALLATION INSTRUCTIONS.
- M.C. SHALL SUBMIT SHOP DRAWINGS ON THE HOOD AND UL200 FIRE SUPPRESSION SYSTEM TO AHJ FOR APPROVAL PRIOR TO INSTALLATION. WHERE THIS REQUIRES A SEPARATE PERMIT / INSPECTION, THE M.C. SHALL PROVIDE ALL REQUIRED DOCUMENTATION FOR THIS WORK. SHOP DRAWINGS SHALL INCLUDE SCALED REPRESENTATIONS OF HOOD, EQUIPMENT UNDER HOOD, FIRE SUPPRESSION COMPONENTS, NOZZLE SPECIFICATIONS WITH FLOW, PATTERN, AND SPACING.
- HVAC PIPE INSULATION SHALL BE INSULATED IN ACCORDANCE WITH I.E.C.C. TABLE C403.12.3.1 INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE AND SHIELDED FROM SOLAR RADIATION.
- ALL DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 2" W.C. SEAL CLASS "A".
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- ALL DUCTWORK IS TO BE INSTALLED AS HIGH AS POSSIBLE. ALL DUCTWORK MUST BE INSTALLED NO LOWER THAN 12" FROM WHERE IT IS BEING SUPPORTED OR SEISMIC BRACING WILL BE REQUIRED. IF DUCTWORK IS INSTALLED BELOW 12" FROM WHERE IT IS SUPPORTED, IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HAVE SEISMIC SUPPORTS ENGINEERED FOR THE JOB BY A LICENSED ENGINEER.
- ALL TAKE-OFF'S SHALL BE HIGH EFFICIENCY TAKE-OFF'S (HET'S).
- ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION.
- DUCTWORK AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW AND EXISTING MECHANICAL, ELECTRICAL PLUMBING, ARCHITECTURAL AND BUILDING STRUCTURE.
- CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT SCHEDULES TO THE ARCHITECT FOR ENGINEER'S APPROVAL PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- ALL MECHANICAL SYSTEMS / THEIR COMPONENTS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL SYSTEMS. REPORT SHALL BE COMPLETED PRIOR TO THE FINAL INSPECTION / APPROVAL BY THE AUTHORITY HAVING JURISDICTION. BALANCING SHALL BE IN COMPLIANCE WITH AACR OR NEBB AND BALANCER MAY BE CERTIFIED BY EITHER T.A.B. BY OWNER.
- EACH TRADE IS RESPONSIBLE FOR THEIR OWN FIRE CAULKING. SEE ARCH. PLANS.
- G.C. TO SUBMIT TO ARCHITECT ALL AS-BUILDS OF BUILDINGS MECHANICAL SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- ALL THERMOSTAT LOCATIONS ON THE PLANS SHALL COORDINATED WITH FURNITURE PLANS AND VERIFIED WITH OWNER PRIOR TO ROUGH IN. IF THERMOSTAT NEEDS TO BE INSTALLED IN A LOCATION OTHER THAN SHOWN ON THE PLANS, THIS CONTRACTOR SHALL MAKE ADJUSTMENTS AT NO ADDITIONAL COST.
- ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT.
- GENERAL EXHAUST DUCTS / FANS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS.
- GENERAL CONTRACTOR SHALL PROVIDE THE BUILDING OWNER WITH OPERATIONS AND MAINTENANCE DOCUMENTS INCLUDING MANUF. INFORMATION, SPECIFICATIONS / RECOMMENDATIONS, PROGRAMMING PROCEDURES AND DATA POINTS, NARRATIVES, AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING EQUIPMENT, AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED, AND OPERATED. REQUIRED REGULAR MAINTENANCE ACTIONS FOR EQUIP. AND SYSTEMS SHALL BE CLEARLY STATED ON A READILY VISIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT. (IECC 408.1.1)
- INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION ADDITIONS OR AREAS OF ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, M.C. TO REPLACE FILTERS JUST PRIOR TO SUBSTANTIAL COMPLETION.
- THE G.C. SHALL CONTRACT A COMMISSIONING AGENT TO PROVIDE / IMPLEMENT A COMMISSIONING PLAN PURSUANT TO IECC 408.2.1, 408.2.3.1, 408.2.4, 408.2.5, 408.2.3.2. FINAL COMMISSIONING REPORT TO BE PROVIDED TO OWNER WITHIN 90 DAYS OF RECEIVING CERTIFICATE OCCUPANCY.
- HVAC CONTROLS SHALL BE TESTED / CALIBRATED AS REQUIRED TO ENSURE PROPER OPERATION OF EQUIPMENT.
- A DRAWING OF TYPE I HOOD EXHAUST SYSTEM INSTALLATIONS ALONG WITH A COPY OF OPERATING INSTRUCTIONS FOR SUB-ASSEMBLES AND COMPONENTS USED IN THE EXHAUST SYSTEM, INCLUDING ELECTRICAL SCHEMATICS, SHALL BE AVAILABLE ON SITE.
- CARE SHOULD BE TAKEN IN THE ROUTING OF MECHANICAL WORK TO MINIMIZE INTERFERENCE OF LIGHT FROM SKYLIGHT OPENINGS. COORDINATE DISCREPANCIES WITH G.C. AND ENGINEER.

C408.1.2: COMMISSIONING PLAN:

A COMMISSIONING PLAN SHALL BE DEVELOPED BY THE PROJECTS CERTIFIED COMMISSIONING PROFESSIONAL AND SHALL OUTLINE THE ORGANIZATION, SCHEDULE, ALLOCATION OF RESOURCES, AND DOCUMENTATION REQUIREMENTS OF THE COMMISSIONING PROCESS.

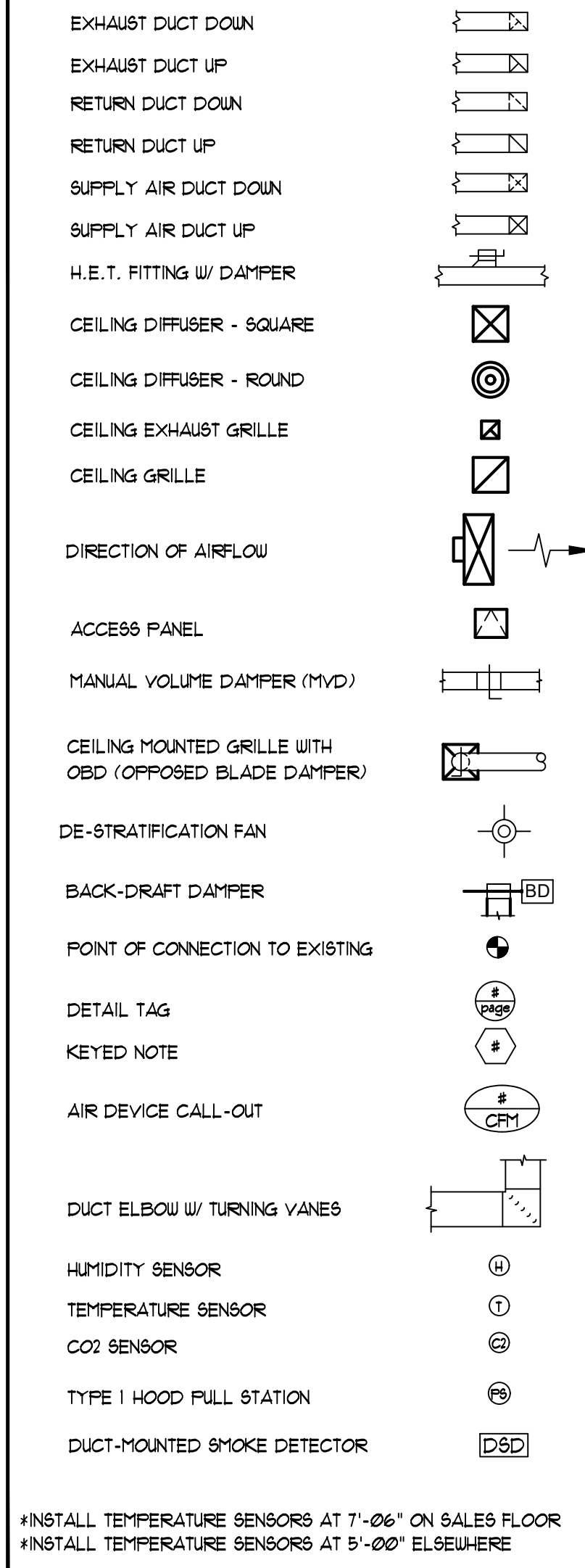
ITEMS 1 THROUGH 4 SHALL BE INCLUDED WITH THE CONSTRUCTION DOCUMENTS AND ITEMS 5 THROUGH 8 SHALL BE SUBMITTED PRIOR TO THE FIRST MECHANICAL INSPECTION. FOR PROJECTS WHERE NO MECH. INSPECTION IS REQUIRED, ITEMS 5-8 SHALL BE SUBMITTED PRIOR TO THE FIRST ELECTRICAL INSPECTION.

- A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING, INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES.
- ROLES AND RESPONSIBILITIES OF THE COMMISSIONING TEAM INCLUDING STATEMENT OF QUALIFICATIONS OF THE COMMISSIONING PROFESSIONAL.
- A SCHEDULE OF ACTIVITIES INCLUDING SYSTEM TESTING AND BALANCING, FUNCTIONAL PERFORMANCE TESTING, AND VERIFICATION OF THE BUILDING DOCUMENTATION REQUIREMENTS IN SECTION C103.6.
- WHERE THE CERTIFIED COMMISSIONING PROFESSIONAL IS AN EMPLOYEE OF ONE OF THE REGISTERED DESIGN PROFESSIONALS OF RECORD OR AN EMPLOYEE OR SUBCONTRACTOR OF THE PROJECT CONTRACTOR, AN IN-HOUSE COMMISSIONING DISCLOSURE AND CONFLICT MANAGEMENT PLAN SHALL BE SUBMITTED WITH THE COMMISSIONING PLAN. THIS PLAN SHALL DISCLOSE THE CERTIFIED COMMISSIONING PROFESSIONAL'S CONTRACTUAL RELATIONSHIP WITH OTHER TEAM MEMBERS AND PROVIDE A CONFLICT MANAGEMENT PLAN DEMONSTRATING THAT THE CERTIFIED COMMISSIONING PROFESSIONAL IS FREE TO IDENTIFY ANY ISSUES DISCOVERED / REPORT DIRECTLY TO THE OWNER.
- A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCES, OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.
- FUNCTIONS TO BE TESTED.
- CONDITIONS UNDER WHICH THE TESTS WILL BE PERFORMED.
- MEASURABLE CRITERIA FOR PERFORMANCE.

TEST & BALANCING PROCEDURES / REQUIREMENTS:

- ALL TESTING / BALANCING SHALL ADHERE TO AACR (8TH EDITION) OR NEBB (7TH EDITION).
- BEFORE BALANCING, ALL PRESSURE TEST (DUCT LEAKAGE) OF DUCT AND PIPING SYSTEMS MUST BE COMPLETE AND ACCEPTABLE.
- OBTAIN AS-BUILT DESIGN DRAWINGS AND SPECIFICATIONS, AND BECOME THOROUGHLY ACQUAINTED WITH THE DESIGN INTENT.
- OBTAIN COPIES OF APPROVED SHOP DRAWINGS OF ALL AIR HANDLING EQUIPMENT, OUTLETS, AND TEMPERATURE CONTROL DIAGRAMS, INCLUDING PERFORMANCE CURVES. COMPARE DESIGN REQUIREMENTS WITH SHOP DRAWING CAPACITIES.
- CHECK DAMPERS (AS APPLICABLE) FOR CORRECT AND LOCKED POSITION AND TEMP. CONTROL FOR COMPLETENESS OF INSTALLATION BEFORE STARTING FANS.
- CHECK FILTERS FOR CLEANLINESS AND PROPER INSTALLATION. M.C. SHALL REPLACE DIRTY FILTERS PRIOR TO TESTING & BALANCING.
- PILOT TUBE TRAVERSE IS THE GENERALLY ACCEPTED METHOD OF MEASURING AIRFLOW IN DUCTS. THE MAXIMUM STRAIGHT RUN SHOULD BE OBTAINED BEFORE AND AFTER THE TRAVERSE STATION - SEE CHAPTER 36 OF ASHRAE FUNDAMENTALS / STANDARD 111.

MECHANICAL LEGEND



*INSTALL TEMPERATURE SENSORS AT 7'-06" ON SALES FLOOR
 *INSTALL TEMPERATURE SENSORS AT 9'-00" ELSEWHERE

ABBREVIATIONS

AC	AIR CONDITIONING
ACR	AIR CONDITIONING / REFRIGERATION
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ASL	ABOVE SEA LEVEL
APD	AIR PRESSURE DROP
BHP	BRAKE HORSE POWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP.	CAPACITY
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB TEMPERATURE
DD	DUCT SMOKE DETECTOR
(E)	EXISTING
EAT	ENTERING AIR TEMPERATURE
E.C.	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEV	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
EUT	ENTERING WATER TEMPERATURE
FLA	FULL LOAD AMPS
FFM	FEET PER MINUTE
FV	FACE VELOCITY
GM	GALLONS PER MINUTE
HG	MERCURY
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
IN	INCH
KJ	KILOJOULE
L.A.T.	LEAVING AIR TEMPERATURE
LAT.	LATENT
LSB	POUNDS
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS/HOUR
M.C.	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MIN	MINIMUM
MVD	MANUAL VOLUME DAMPER
N/A	NOT APPLICABLE
N.C.	NOISE CRITERIA
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OZ	OUNCE
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PFM	PARTS PER MILLION
PRES.	PRESSURE
FSI	PER SQUARE INCH
RA	RETURN AIR
REF	REFRIGERATION
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SEN	SENSIBLE
SP	STATIC PRESSURE
90 FT	SQUARE FEET
SS	STAINLESS STEEL
TSP	TOTAL STATIC PRESSURE
TEMP.	TEMPERATURE
T-STAT	THERMOSTAT
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W	WITH
WB	WET BULB TEMPERATURE
W.C.	WATER COLUMN
W/O	WITHOUT
WT	WEIGHT

CODES & DESIGN CRITERIA	
JURISDICTION:	Henderson, NV
MECHANICAL CODE:	2018 Uniform Mechanical Code w/ Southern NV Amendments
PLUMBING CODE:	2018 Uniform Plumbing Code w/ Southern NV Amendments
ENERGY CODE:	2018 IECC w/ Southern NV Amendments
CLIMATE ZONE:	3B
WINTER DESIGN DB:	28.2° F
SUMMER DESIGN TEMP DB / WB:	108.4 / 65.6 °F
RETAIL HEATING SET POINT:	68° F
RETAIL COOLING SET POINT:	73° F
DOCK / PICK-UP HEATING SET POINT:	68° F
DOCK / PICK-UP COOLING SET POINT:	77° F
BUILDING TYPE:	M
ELEVATION:	2,458' A.S.L.
BUILDING TOTAL AREA:	129,678 SF

MECHANICAL SHEET LIST - SM303	
SHEET #	SHEET TITLE
M0.1	MECHANICAL NOTES & SYMBOLS
M0.2	MECHANICAL COMCHECK
M0.3	MECHANICAL COMCHECK
M0.4	MECHANICAL COMCHECK
MD.1A	MECH. DEMO PLAN "A"
MD.1B	MECH. DEMO PLAN "B"
MD.1C	MECH. DEMO PLAN "C"
MD.1D	MECH. DEMO PLAN "D"
M1.1A	MECH. FLOOR PLAN "A"
M1.1B	MECH. FLOOR PLAN "B"
M1.1C	MECH. FLOOR PLAN "C"
M1.1D	MECH. FLOOR PLAN "D"
M1.2A	MECH. ROOF PLAN "A"
M1.2B	MECH. ROOF PLAN "B"
M1.2C	MECH. ROOF PLAN "C"
M1.2D	MECH. ROOF PLAN "D"
M4.1	MECH. FLOOR PLAN - DELI
M5.1	HVAC STANDARD DETAILS
M5.2	HVAC DETAILS
M5.3	LOCAL DETAIL
M6.1	MECHANICAL SCHEDULES
M6.2	MECHANICAL SCHEDULES
M6.3	MECHANICAL SCHEDULES
M6.4	MECHANICAL SCHEDULES

PRESCOTT MUIR ARCHITECT

171 WEST PIERPONT AVE.

SALT LAKE CITY, UTAH 84101

TEL: 801.521.9111 FAX: 801.521.9158

DATE: 11.22.24
 BID SET

SMITH'S FOOD AND DRUG STORE #303
 560 N STEPHANIE ST
 HENDERSON, NV

MECHANICAL ENGINEERS
 PVE INC. 801.958.3158

MECHANICAL NOTES & SYMBOLS

DRAWN BY: BMS
 PVE PROJECT NO.: 2400414

SHEET NO.: MO.1





1040 N 2200 WEST SALT LAKE CITY, UT
T: 801.359.3158 www.pve-ut.com

SHEET NO.: MO.4

DATE: 11.22.24
DRAWN BY: BMS
PVE PROJECT NO.: 24004.04

SMITH'S FOOD AND DRUG STORE #303
560 N STEPHANIE ST
HENDERSON, NV

MECHANICAL ENGINEERS
PVE INC. 8018663158

SALT LAKE CITY, UTAH 84101

TEL: 801.521.9111 FAX: 801.521.9158

MECHANICAL COMCHECK

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4.1 (F147)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M1.1C
C403.2.4.1 (F147)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M1.1D
C403.2.4.1 (F147)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M1.1D
C403.2.4.1 (F147)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M1.1D
C403.2.4.1 (F147)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M1.1C
C403.2.4.1 (F147)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M1.1C
C403.2.4.1 (F147)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M4.1
C403.2.4.1.1 (F142)	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.4.1.1 (F142)	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.4.1.1 (F142)	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

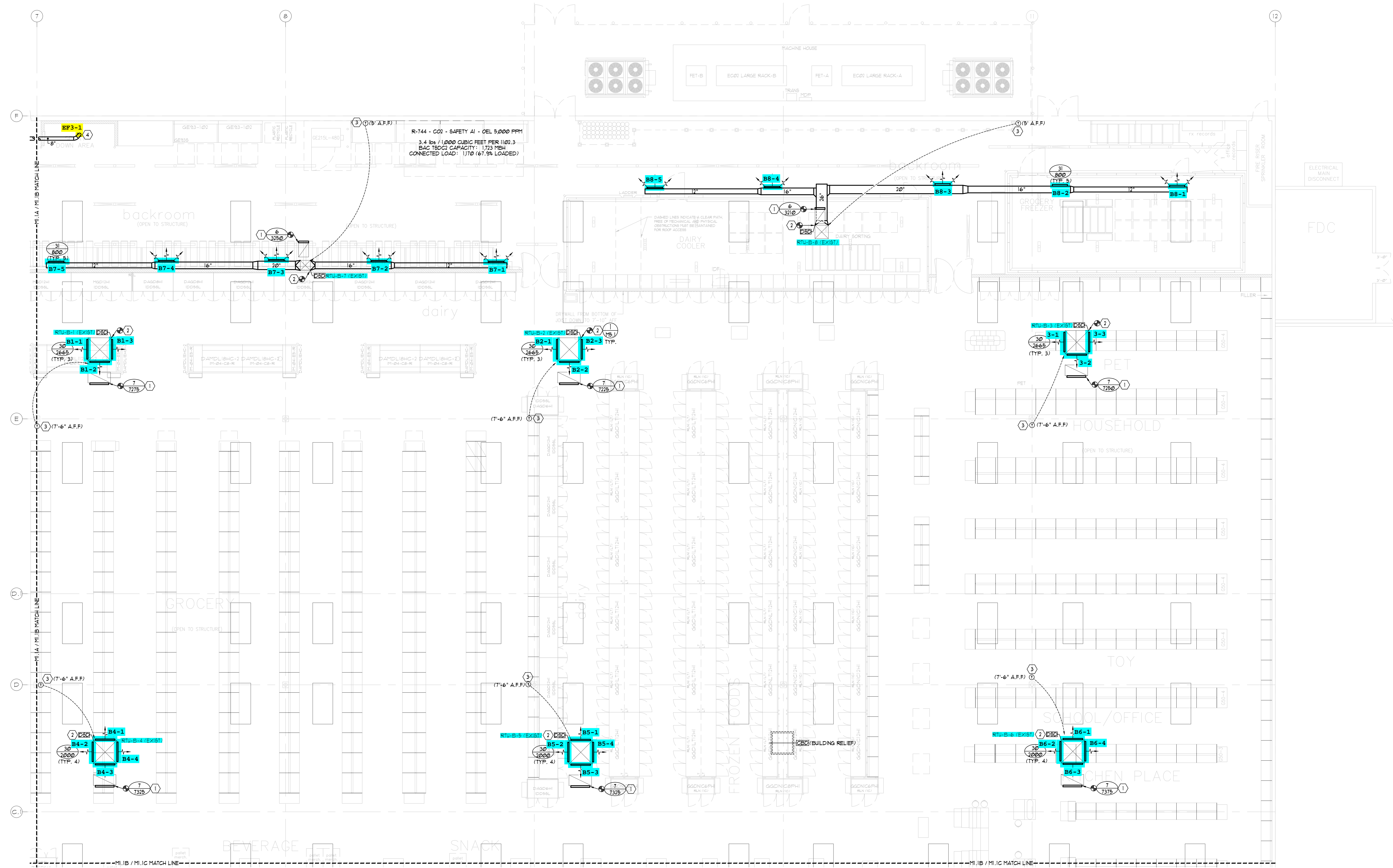
Project Title: Smith's 303 Report date: 10/02/24
Data filename: X:\Projects\2024\24004.04 - Smith's 303\2018 - UMC\ComCheck\SM303 - Mech ComCheck.cck Page 20 of 23

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.4.1 (F138)	Thermostatic controls have a 5°F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Project utilizes an Energy Management System
C403.2.4.1.3 (F120)	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Project utilizes an Energy Management System
C403.2.4.1.3 (F139)	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Project utilizes an Energy Management System
C403.2.4.2.1 (F140)	Automatic Controls: Setback to 55°F (heat) and 65°F (cool); 7 day clock, 2-hour occupant override, 10-hour backup	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Project utilizes an Energy Management System
C408.1.1 (F15)	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M0.1
C408.2.1 (F128)	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M0.1
C408.2.3.1 (F131)	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M0.1
C408.2.3.1 (F110)	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M0.1
C408.2 (F129)	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M0.1
C408.2.5.1 (F17)	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.3 (F143)	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M0.1
C408.2.5.4 (F130)	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M0.1

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Smith's 303 Report date: 10/02/24
Data filename: X:\Projects\2024\24004.04 - Smith's 303\2018 - UMC\ComCheck\SM303 - Mech ComCheck.cck Page 21 of 23

- M1.B KEYED NOTES:**
- 1 EXTEND EXISTING RETURN AS REQUIRED FOR INSTALLATION OF NEW F.A. GRILLER.
 - 2 OWNER-PROVIDED, CONTROL CONTRACTOR INSTALLED DUCT SMOKE DETECTOR.
 - 3 START FOR EXISTING RTU BY OWNER, INSTALLED BY CONTRACTOR.
 - 4 TURN 8" ELBOW TOWARDS THE FLOOR. TERMINATE AT 12" A.F.F. AND BALANCE TO 100 CFM.
- GENERAL NOTES:**
- 1 COORDINATE SYSTEM BALANCING WITH OWNER'S AGENT PER SPB 230563.
 - 2 CONTRACTOR TO SUPPLY ROUND DUCT UNLESS EQUIVALENT SQUARE DUCT IS MORE COST EFFECTIVE.
 - 3 GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
 - 4 PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY RETURN AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGER DUCTS AS REQUIRED FOR AIR BALANCING.
 - 5 PROVIDE TURNING VANES IN ALL SUPPLY DUCT RECTANGULAR 90 DEGREE MITERED ELBOWS.



M1.B MECHANICAL FLOOR PLAN - "B"
 SCALE: 1/8" = 1' - 0"
 0' 4' 8' 12' 16'



PRESCOTT MUIR ARCHITECT
 171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101
 TEL: 801.521.9111 FAX: 801.521.9158

M1.B

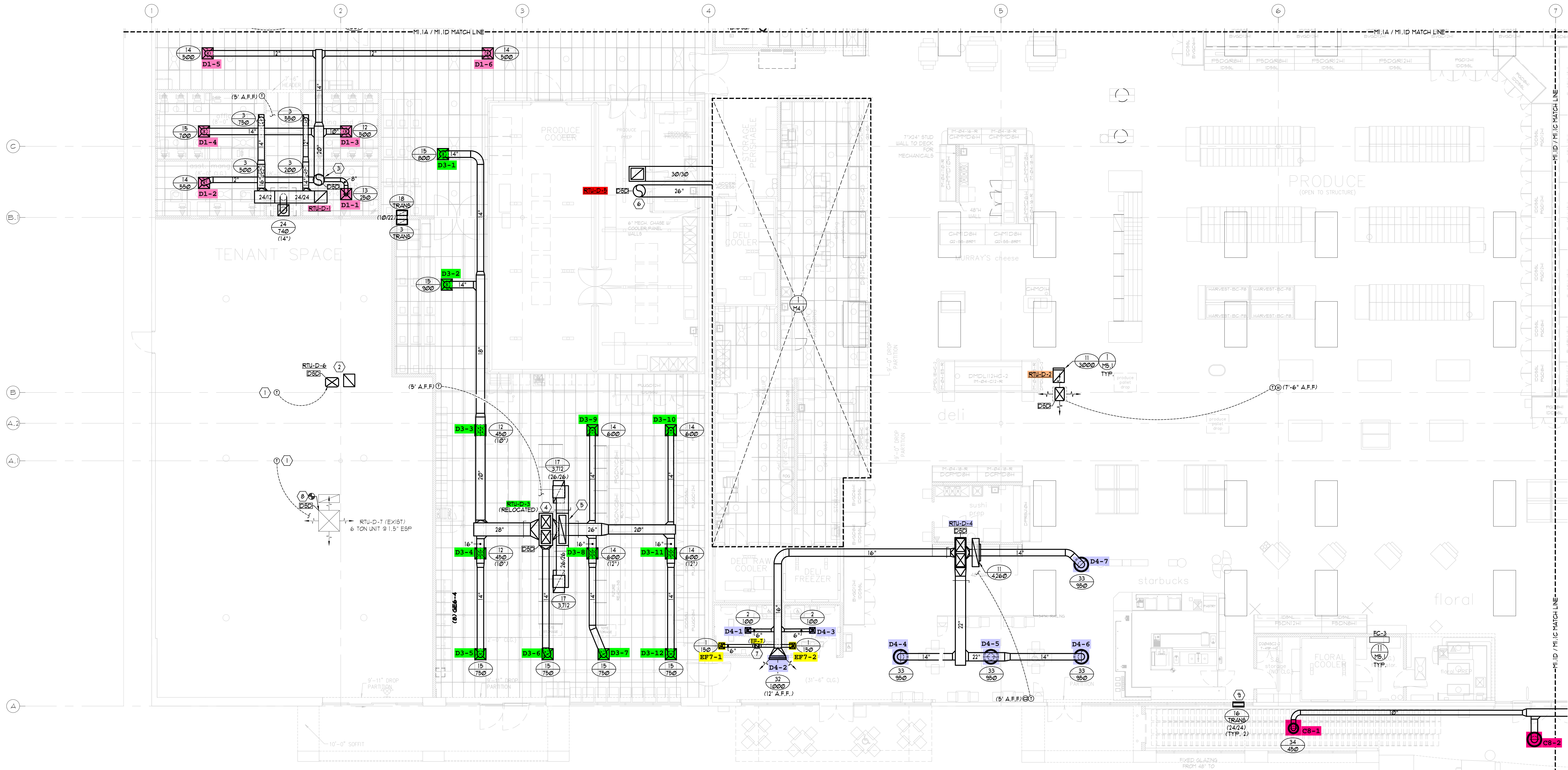
SMITH'S FOOD AND DRUG
 STORE #303
 560 N STEPHANIE ST
 HENDERSON, NV

MECHANICAL ENGINEERS
 PVE INC. 801.359.3158

DRWN BY: BNS
 DATE: 11.22.24
 BID SET

PVE PROJECT NO.: 2403414

THIS DOCUMENT IS PRELIMINARY AND SHALL REMAIN THE PROPERTY OF PVE ARCHITECT. NO USE OR REPRODUCTION OF THIS DOCUMENT SHALL BE PERMITTED WITHOUT THE WRITING OF PVE ARCHITECT. APPROPRIATE CANNOT BE OBTAINED FROM PVE ARCHITECT.



- M.I.D KEYED NOTES:**
- STAND-ALONE TENANT STAT FOR RTU BY OWNER. INSTALLED BY CONTROLS CONTRACTOR.
 - STUB DUCTS INTO SPACE JUST BELOW STRUCTURE FOR FUTURE CONNECTIONS BY OTHERS. SEE TENANT RTU NOTES, SHEET M8.2.
 - TRANSITION TO 24" ROUND DUCT AT UNIT. WEST OFFICE BRANCHES TO TAP-OFF 24" DUCT BEFORE REDUCING TO 20" AND HEADING EAST.
 - COMBINE FACTORY SUPPLY DROPS AND TRANSITION TO 30/69 SUPPLY BOX FOR NEW BRANCH CONNECTIONS.
 - TRANSITION TO 26/69 RETURN BOX FOR NEW BRANCH CONNECTIONS.
 - TRANSITION TO 26" ROUND AT UNIT.
 - 6" DUCT THROUGH ROOF. SEE M1.2D.
 - OWNER-PROVIDED, CONTROLS CONTRACTOR INSTALLED DUCT SMOKE DETECTOR.
 - INSTALL TRANSFERS AS HIGH AS POSSIBLE.

- GENERAL NOTES:**
- COORDINATE SYSTEM BALANCING WITH OWNER'S AGENT PER SPEC 230593.
 - CONTRACTOR TO SUPPLY ROUND DUCT UNLESS EQUIVALENT SQUARE DUCT IS MORE COST EFFECTIVE.
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
 - PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGER DUCTS AS REQUIRED FOR AIR BALANCING.
 - PROVIDE TURNING VANES IN ALL SUPPLY DUCT RECTANGULAR 90 DEGREE MITERED ELBOWS.

VESTIBULE REQUIREMENTS (IECC 403.4.1.4):

- RTU IS OWNER-PROVIDED, M.C. INSTALLED.
- RTU CURB IS M.C. PROVIDED / INSTALLED.
- SEE E.M.S. PLANS FOR ENERGY MANAGEMENT SYSTEM CONNECTIONS.
- HEATING / COOLED VESTIBULES:

THE HEATING SYSTEMS FOR HEATED VESTIBULES WITH INTEGRAL HEATING SHALL BE PROVIDED WITH CONTROLS CONFIGURED TO SHUT OFF THE SOURCE OF HEATING WHEN THE OUTDOOR AIR TEMPERATURE IS GREATER THAN 45°F. VESTIBULE HEATING AND COOLING SYSTEMS SHALL BE CONTROLLED BY A THERMOSTAT LOCATED IN THE VESTIBULE CONFIGURED TO LIMIT HEATING TO A TEMPERATURE NOT GREATER THAN 60°F AND COOLING TO A TEMPERATURE NOT LESS THAN 65°F.

SMITH'S DESIGN DATA FOR VESTIBULES:

- 4 AIR CHANGES PER HOUR
- 15% INFILTRATION RATE

CO2 SENSOR SEQUENCE OF OPERATIONS

OUTSIDE AIR DAMPERS WILL BE SET TO MINIMUM OUTSIDE AIR PER RTU / VENTILATION SCHEDULES. DAMPERS SHALL ADJUST UP TO LOOK OUTSIDE AIR BASED ON CO2 SENSOR READINGS. CO2 SENSORS SHALL BE MOUNTED IN SPACE AND OUTSIDE AT RTU. IF CO2 LEVELS IN THE SPACE REACH 100 PPM GREATER THAN THE OUTSIDE AIR, THE OA DAMPERS WILL BEGIN TO OPEN AND WILL MODULATE OPEN UNTIL CO2 READINGS INSIDE AND OUTSIDE ARE THE SAME. UPON READING 10% ABOVE ACCEPTABLE LEVEL, SENSOR SHALL PROVIDE A VISUAL OR AUDIBLE ALERT AT UNIT. CO2 SENSORS SHALL BE INSTALLED AT SAME ELEVATION AS THERMOSTATS. CO2 SENSOR IS OWNER-PROVIDED, INSTALLED BY DIVISION 28.

M1.1D MECHANICAL FLOOR PLAN - "D"
 SCALE: 1/8" = 1' - 0"
 0' 4' 8' 12' 16'

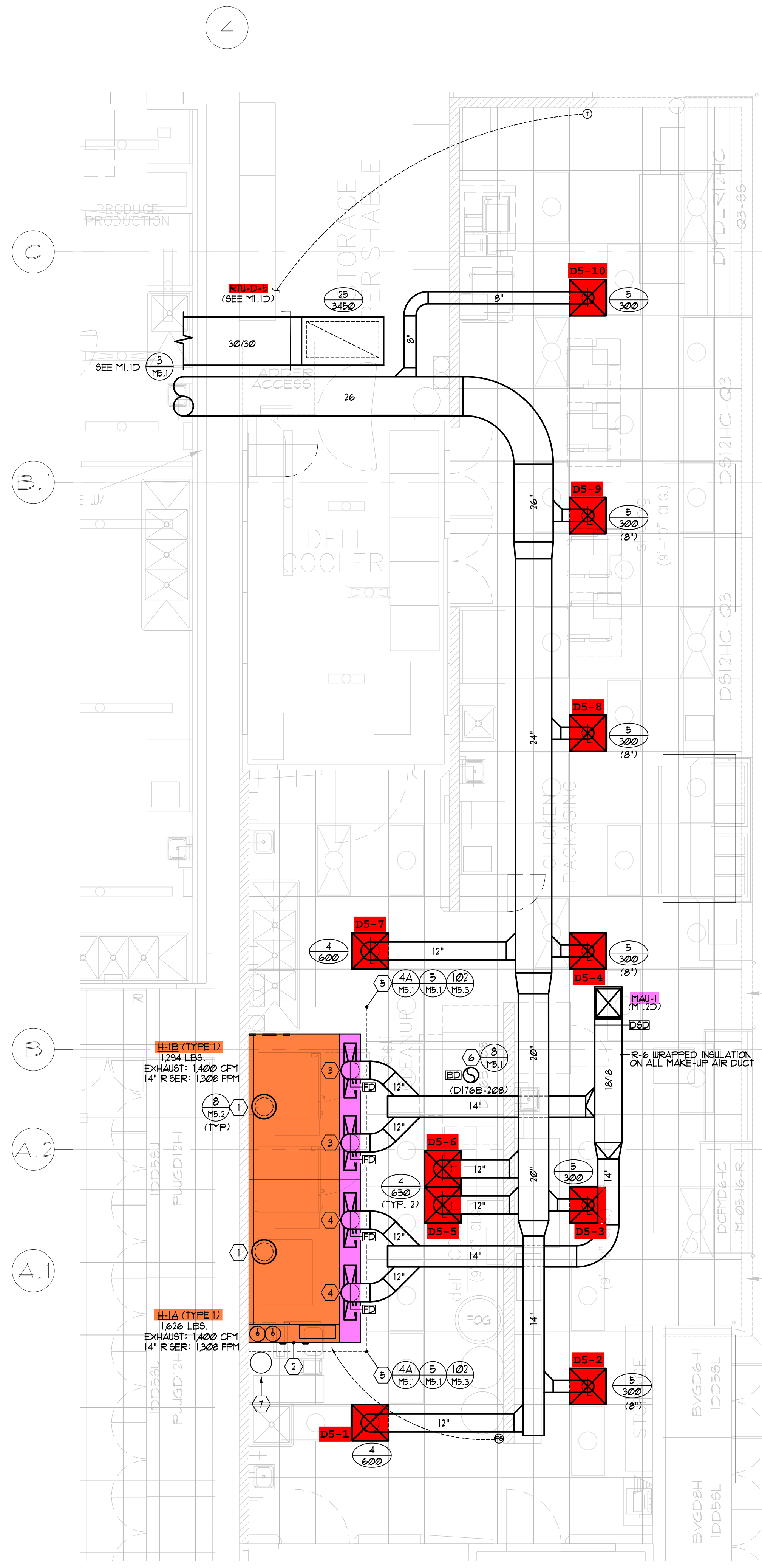


PRESCOTT MUIR ARCHITECT 171 WEST PIERPONT AVE. SALT LAKE CITY, UTAH 84101 TEL: 801.521.9111 FAX: 801.521.9158

SMITH'S FOOD AND DRUG STORE #303 560 N STEPHANIE ST HENDERSON, NV
 MECHANICAL ENGINEERS PVE INC. 801.966.3166
 MECHANICAL FLOOR PLAN - "D"

SHEET NO.: M1.1D
 DATE: 11.22.24
 BID SET
 DRAWN BY: BNS
 PVE PROJECT NO.: 24004.04

THIS DOCUMENT IS PRELIMINARY AND SHALL REMAIN THE PROPERTY OF PVE INC. NO USE OR REPRODUCTION OF THIS DOCUMENT SHALL BE PERMITTED IN ANY MANNER WITHOUT THE WRITING OF PVE INC. APPROXIMATE DRAWING APPROVED FOR CONSTRUCTION.



MECHANICAL FLOOR PLAN - DELI
SCALE: 1/4" = 1' - 0"

- KEYED NOTES:**
- TRANSITION TO 14" GREASE DUCT AT HOOD COLLAR. CONTINUE 14" DUCT THROUGH ROOF TO ASSOCIATED EXHAUST FAN.
 - FIRE SUPPRESSION CABINET CONNECTIONS BETWEEN CABINET AND FIRE SYSTEM BY M.C. SEE M6.2 / M6.3 FOR FIRE SYSTEM INFORMATION.
 - TRANSITION FROM 12" ROUND DUCT TO PSP COLLAR. BALANCE TO 627 CFM.
 - TRANSITION FROM 12" ROUND DUCT TO PSP COLLAR. BALANCE TO 635 CFM.
 - STAINLESS STEEL WRAP IN GRID AROUND HOOD BY M.C. WRAP TO EXTEND 18" FROM HOOD EDGE (NOT PSP OR FIRE CABINET).
 - 10" STAINLESS STEEL DUCT THROUGH ROOF. SEAL WATER-TIGHT WITH HIGH TEMPERATURE SILICONE. SLOPE ANY OFF-SETS BACK TO EQUIP. - SEE M1.2.D.
 - M.C. TO ROUTE DRAIN FROM FILTER GREASE TRAP TO M.C. PROVIDED METAL CONTAINER (509.2.4 / 509.2.4.1).
- GENERAL NOTES:**
- GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
 - CONTRACTOR SHALL VERIFY THAT ALL VENTS AND EXHAUSTS ARE A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE. ANY REQUIRED OFF-SETS SHALL OCCUR BELOW THE ROOF STRUCTURE.
 - PROVIDE RADIUS FITTINGS WITH TURNING VANES AT ALL TRANSITIONS GREATER THAN 45° IN RECTANGULAR DUCTS.
 - EXISTING SMOKE DETECTOR SHALL BE FIELD-TESTED BY M.C. TO ENSURE PROPER OPERATION. COORDINATE REPAIR / REPLACEMENT W/ P.M. AS REQUIRED.
 - COORDINATE DUCTWORK BALANCING WITH OWNER'S AGENT PER SPEC 230050.
 - CONTRACTOR TO SUPPLY ROUND DUCT UNLESS EQUIVALENT SQUARE DUCT IS MORE COST EFFECTIVE.

- GREASE DUCT NOTES:**
- FIELD APPLIED GREASE DUCT ENCLOSURE SHALL BE INSTALLED PER THE LATEST MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN COMPLIANCE WITH ITS LISTING. PROVIDE CURRENT KC-85 REPORT WITH SUBMITTAL PACKAGE.
 - ALL END CUTS OF FIELD APPLIED GREASE DUCT ENCLOSURE OR CUTS IN THE POIL JACKET SHALL BE SEALED PER THE MANUFACTURER'S RECOMMENDATIONS.
 - ALL INSTALLATIONS SHALL BE COMPLETELY ACCESSIBLE FOR VISUAL INSPECTION PRIOR TO SETTING THE HOOD IN PLACE.
 - AT TIME OF INSPECTION, THE FIELD APPLIED GREASE DUCT ENCLOSURE INSTALLATION INSTRUCTIONS SHALL BE MADE AVAIL AT THE JOB SITE.
 - FIRE EXTINGUISHING SYSTEM SHALL BE INTERCONNECTED TO THE FUEL OR CURRENT SUPPLY SO THAT THE FUEL OR CURRENT IS AUTOMATICALLY SHUT OFF TO ALL EQUIP. UNDER THE HOOD WHEN THE SYSTEM IS ACTIVATED - UMC 513.4.
 - A DRAWING OF THE EXHAUST SYSTEM(S) INSTALLATION ALONG WITH A COPY OF OPERATING INSTRUCTIONS FOR SUBASSEMBLIES AND COMPONENTS USED IN THE EXHAUST SYSTEM(S), INCLUDING ELECTRICAL SCHEMATICS, SHALL BE AVAILABLE ON THE PREMISES.
 - HOOD EXHAUST FAN SHALL CONTINUE TO OPERATE AFTER THE FIRE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM.
 - INTERLOCKED MAKE-UP AIR UNIT SHALL SHUT DOWN UPON ACTIVATION OF FIRE EXTINGUISHING SYSTEM.

- TYPE 1 GREASE HOOD NOTES:**
- HOODS, FANS, AND ANSUL SYSTEM ARE OWNER-PROVIDED. M.C. INSTALLED.
 - GREASE FANS SHALL BE UL 702 LISTED FOR GREASE. PROVIDED WITH A HINGED CURT AND WITH A FLEXIBLE ELECTRICAL CONNECTION FOR CLEANING ACCESS.
 - FAN CURTAINS ARE PROVIDED / INSTALLED BY M.C.
 - HOOD WILL BE SUPPLIED WITH A HEAT SENSOR HEAT SENSOR SHALL AUTOMATICALLY ACTIVATE THE CORRESPONDING EXHAUST FAN UPON SENSING HEAT.
 - ALL DUCTWORK SERVING TYPE 1 HOODS IS TO BE 16 GAUGE WELDED CARBON STEEL OR #18 STAINLESS STEEL AND SHALL BE FIRE WRAPPED WITH 2 LAYERS OF 3M 615+ (OR EQUIVALENT) FIRE BARRIER WRAP.
 - ALL HORIZONTAL SECTIONS OF GREASE DUCT SHALL BE SLOPED BACK TO THE HOOD AT A MINIMUM SLOPE OF 1/4" PER FOOT.
 - PROVIDE GREASE DUCT ACCESS DOORS AT EACH ELBOW AND EVERY 20' AS REQUIRED.
 - SEE ELECTRICAL FOR SHUNT TRIP BREAKER CONNECTIONS.



M1.1C KEYED NOTES:

- 1 LOUVER IN RESTROOM DOOR. SEE ARCH. PLANS FOR SPECIFICATIONS.
- 2 18" DUCT UP THROUGH ROOF. SEE M1.2C M.C. TO PROVIDE / INSTALL TIME CLOCK FOR FAN TO OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.
- 3 12" DUCT UP THROUGH ROOF.
- 4 TURN 6" TRANSFER DUCT DOWN TOWARD FLOOR @ THE SAME ELEVATION AS LIGHTS.
- 5 TERMINATE EXHAUST DUCT IN STRUCTURE DIRECTED TOWARDS THE SALES FLOOR.
- 6 OWNER-PROVIDED. CONTROLS CONTRACTOR INSTALLED DUCT SMOKE DETECTOR.
- 7 STAT FOR EXISTING RTU BY OWNER. INSTALLED BY CONTROLS CONTRACTOR.
- 8 EXTEND EXISTING RETURN AS REQUIRED FOR INSTALLATION OF NEW R.A. GRILLE.
- 9 ROUTE DUCT BETWEEN JOISTS.
- 10 STAND-ALONE TENANT STAT FOR EXISTING RTU BY OWNER. INSTALLED BY CONTROLS CONTRACTOR.
- 11 COORDINATE DUCT INSTALLATION WITH SECURITY GATE.

GENERAL NOTES:

- 1 COORDINATE SYSTEM BALANCING WITH OWNER'S AGENT PER SPEC 230593.
- 2 CONTRACTOR TO SUPPLY ROUND DUCT UNLESS EQUIVALENT SQUARE DUCT IS MORE COST EFFECTIVE.
- 3 GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILING, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
- 4 PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGER DUCTS AS REQUIRED FOR AIR BALANCING.
- 5 PROVIDE TURNING VANES IN ALL SUPPLY DUCT RECTANGULAR 90 DEGREE MITERED ELBOWS.

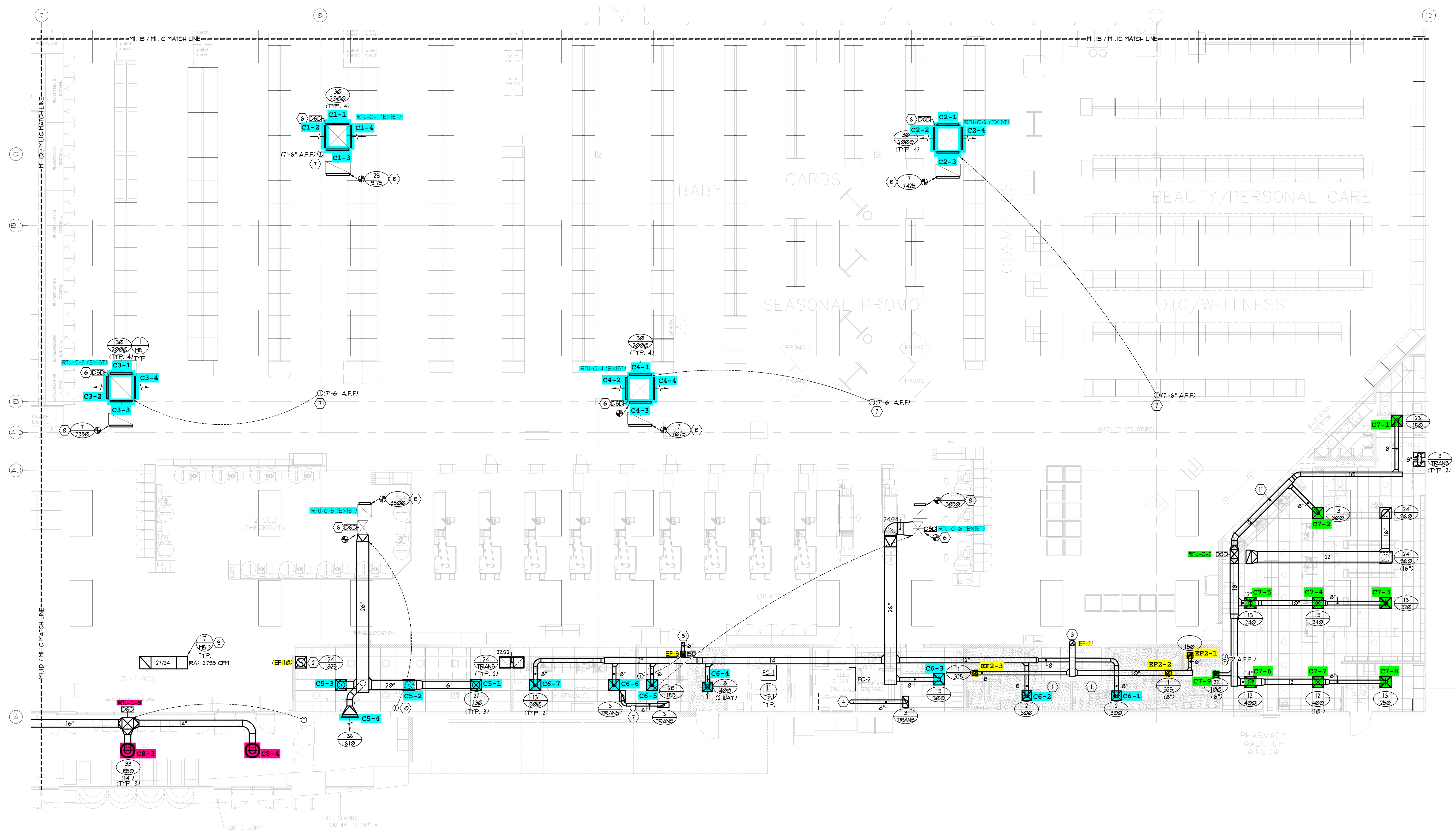
VESTIBULE REQUIREMENTS (IECC 403.4.1.4):

- RTU IS OWNER-PROVIDED, M.C. INSTALLED.
- RTU CURB IS M.C. PROVIDED / INSTALLED.
- SEE E.M.S. PLANS FOR ENERGY MANAGEMENT SYSTEM CONNECTIONS.
- HEATING / COOLED VESTIBULES:

THE HEATING SYSTEMS FOR HEATED VESTIBULES WITH INTEGRAL HEATING SHALL BE PROVIDED WITH CONTROLS CONFIGURED TO SHUT OFF THE SOURCE OF HEATING WHEN THE OUTDOOR AIR TEMPERATURE IS GREATER THAN 45°F. VESTIBULE HEATING AND COOLING SYSTEMS SHALL BE CONTROLLED BY A THERMOSTAT LOCATED IN THE VESTIBULE CONFIGURED TO LIMIT HEATING TO A TEMPERATURE NOT GREATER THAN 60°F AND COOLING TO A TEMPERATURE NOT LESS THAN 65°F.

SMITH'S DESIGN DATA FOR VESTIBULES:

- 4 AIR CHANGES PER HOUR
- 15% INFILTRATION RATE



M1.1C MECHANICAL FLOOR PLAN - °C°
 SCALE: 1/8" = 1' - 0"
 0' 4' 8' 12' 16'



PRESCOTT MUIR ARCHITECT 171 WEST PIERPONT AVE. SALT LAKE CITY, UTAH 84101 TEL: 801.521.9111 FAX: 801.521.9158

MECHANICAL FLOOR PLAN - °C°

SMITH'S FOOD AND DRUG
 STORE #303
 560 N STEPHANIE ST
 HENDERSON, NV

MECHANICAL ENGINEERS
 PVE INC. 801.359.3158

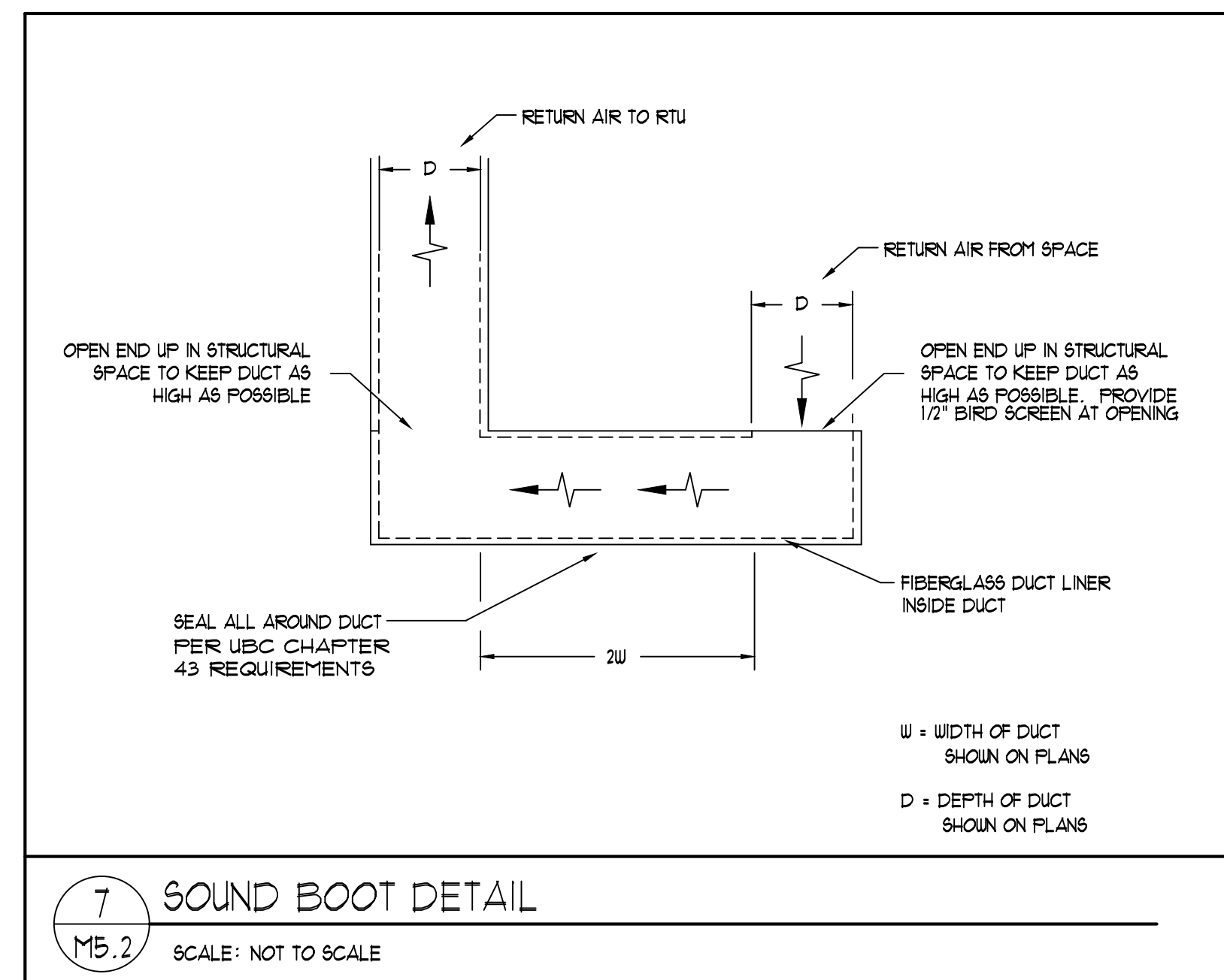
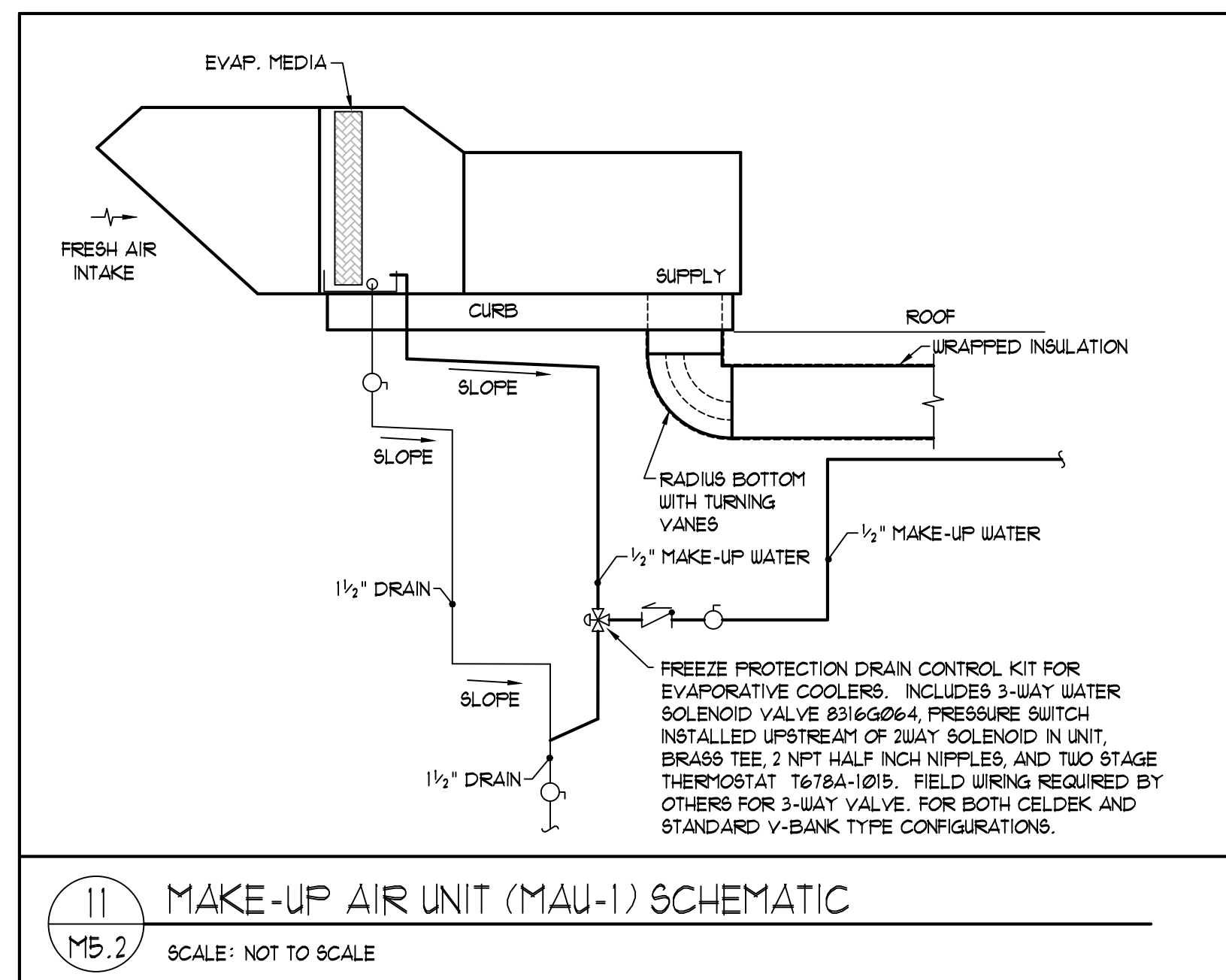
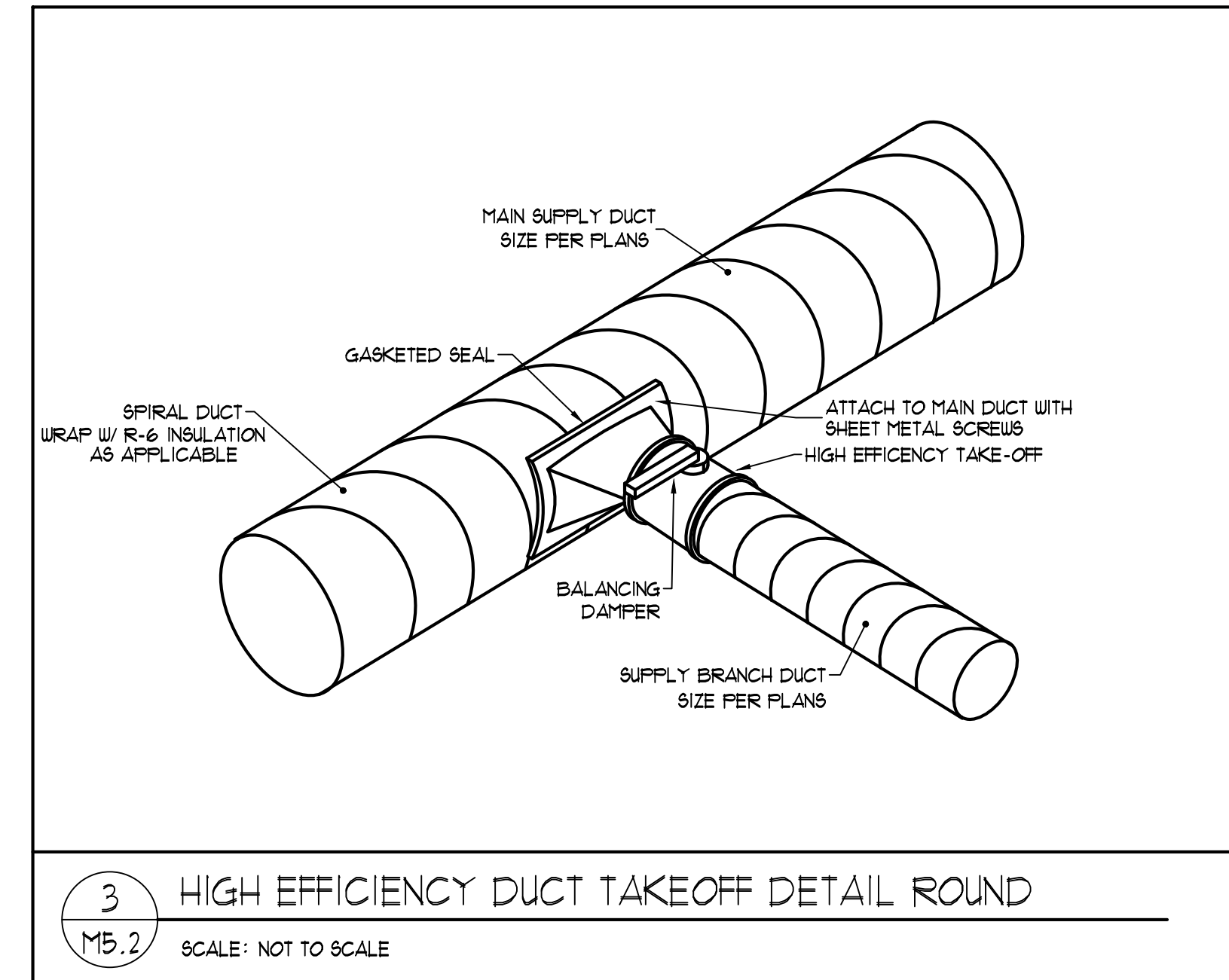
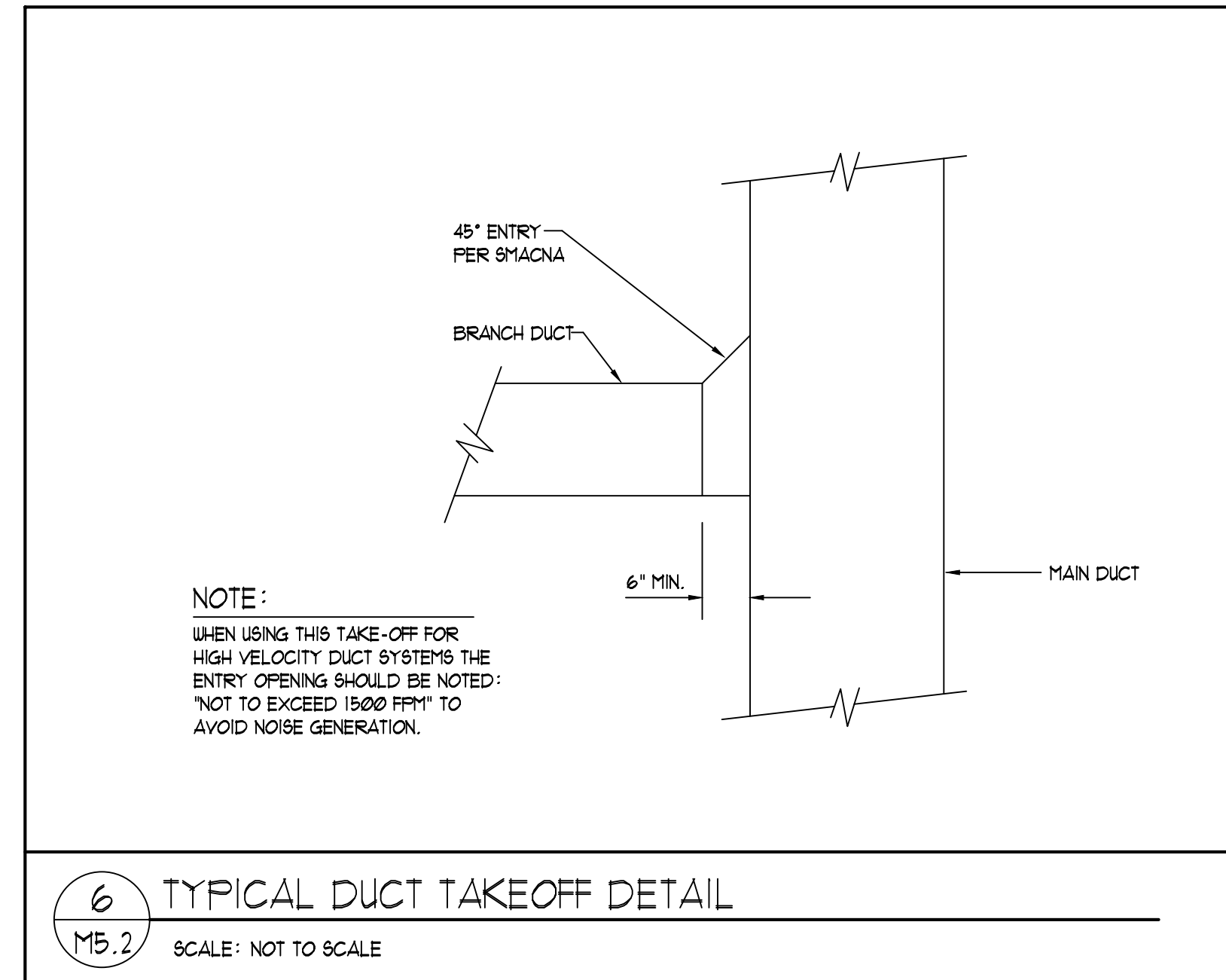
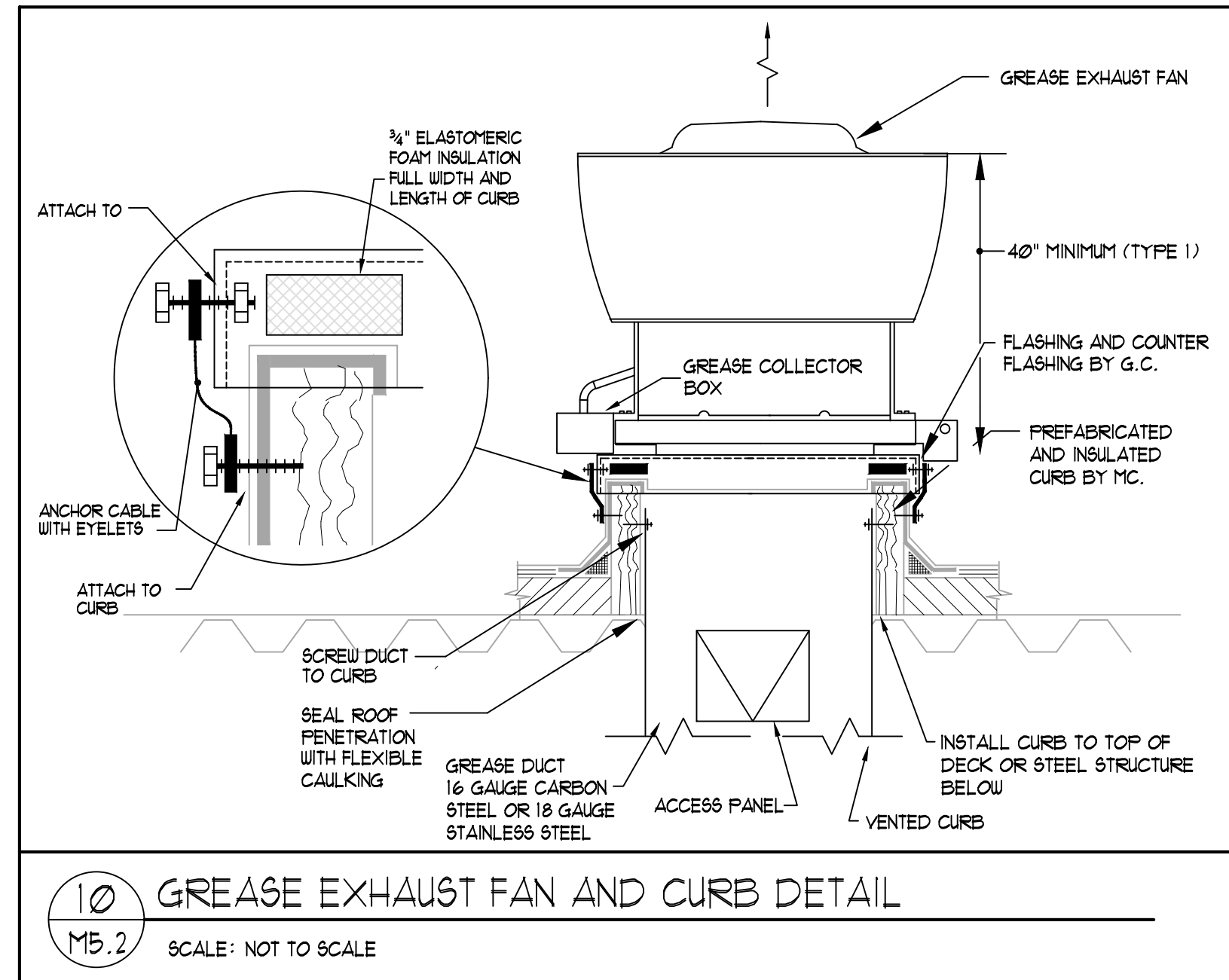
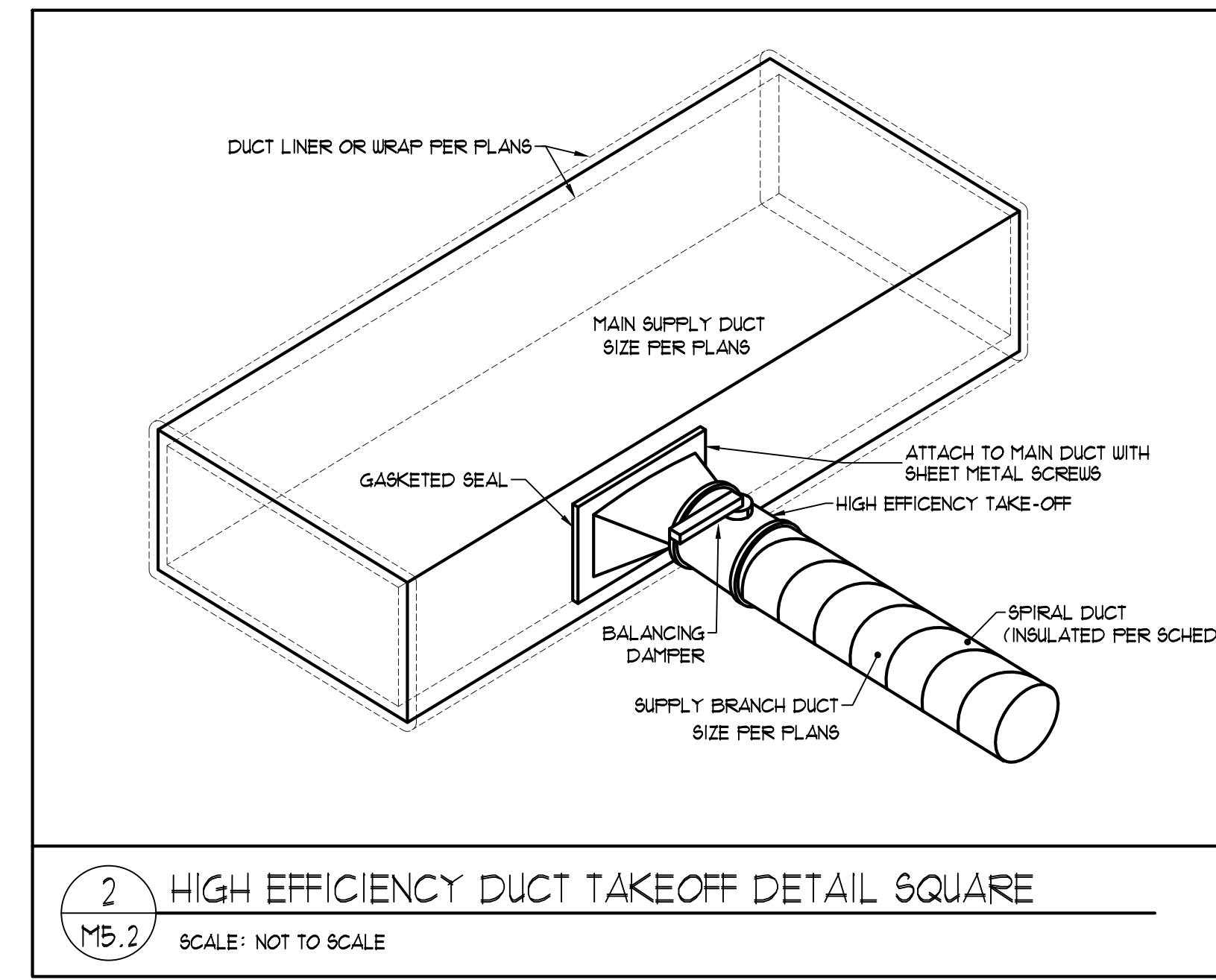
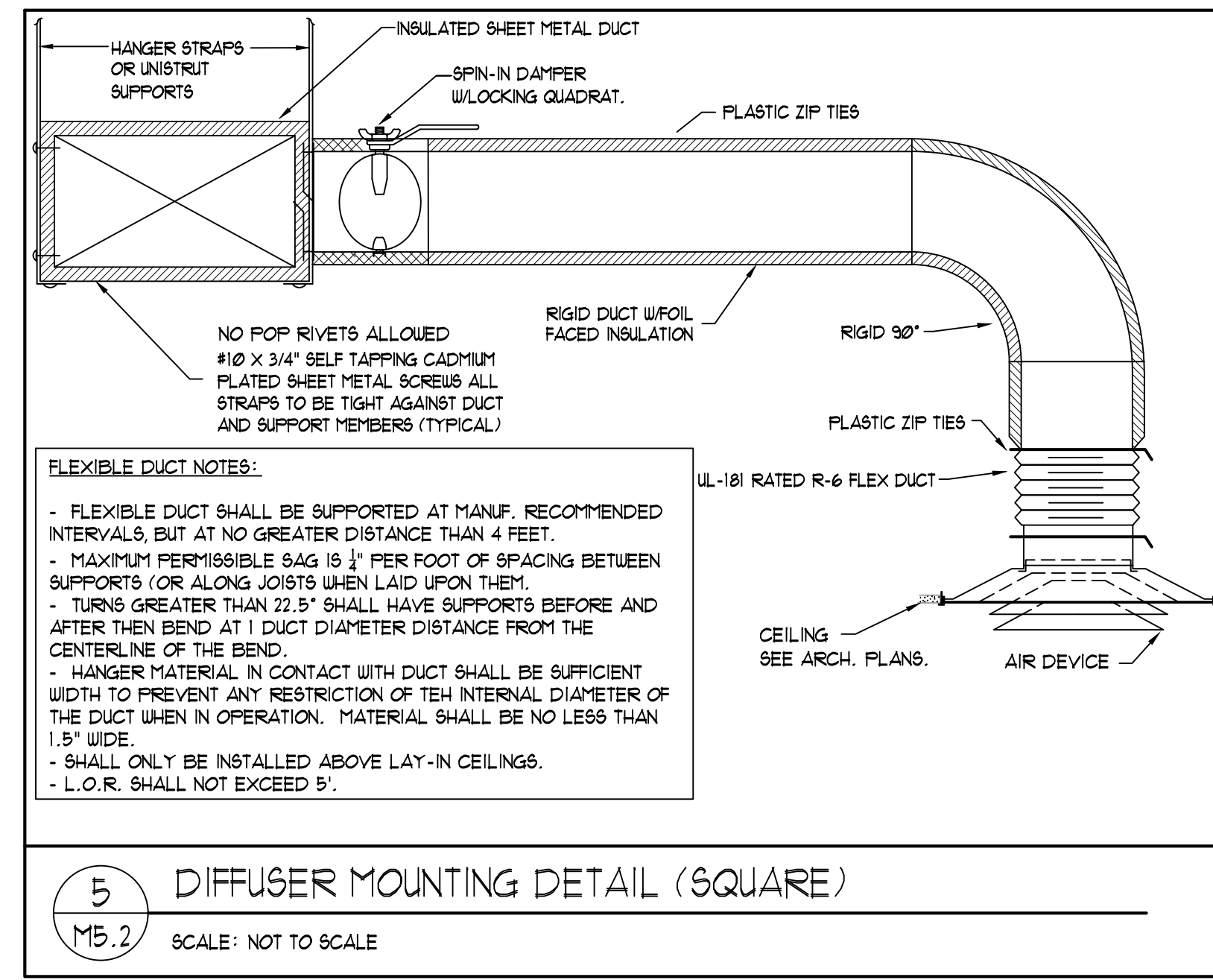
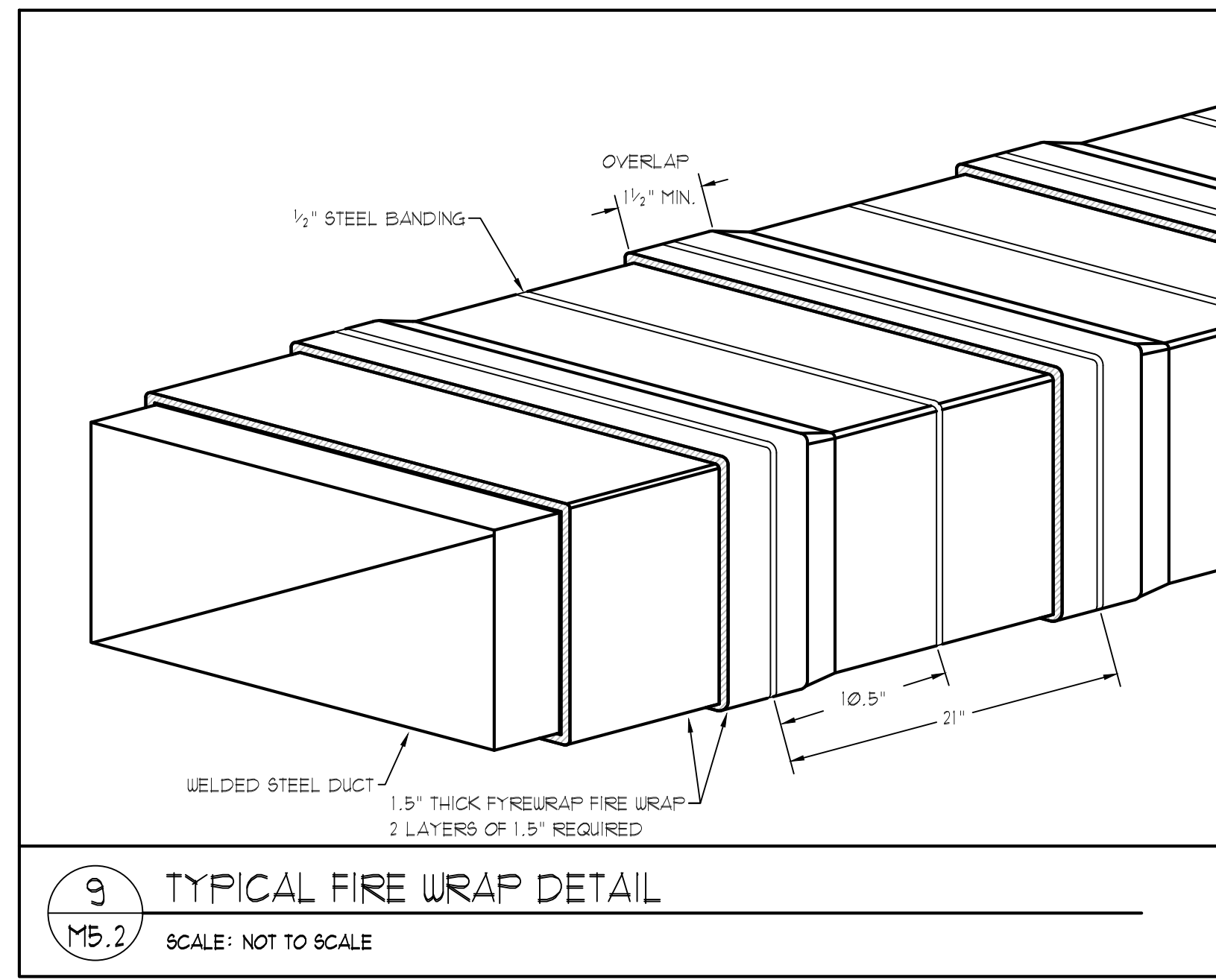
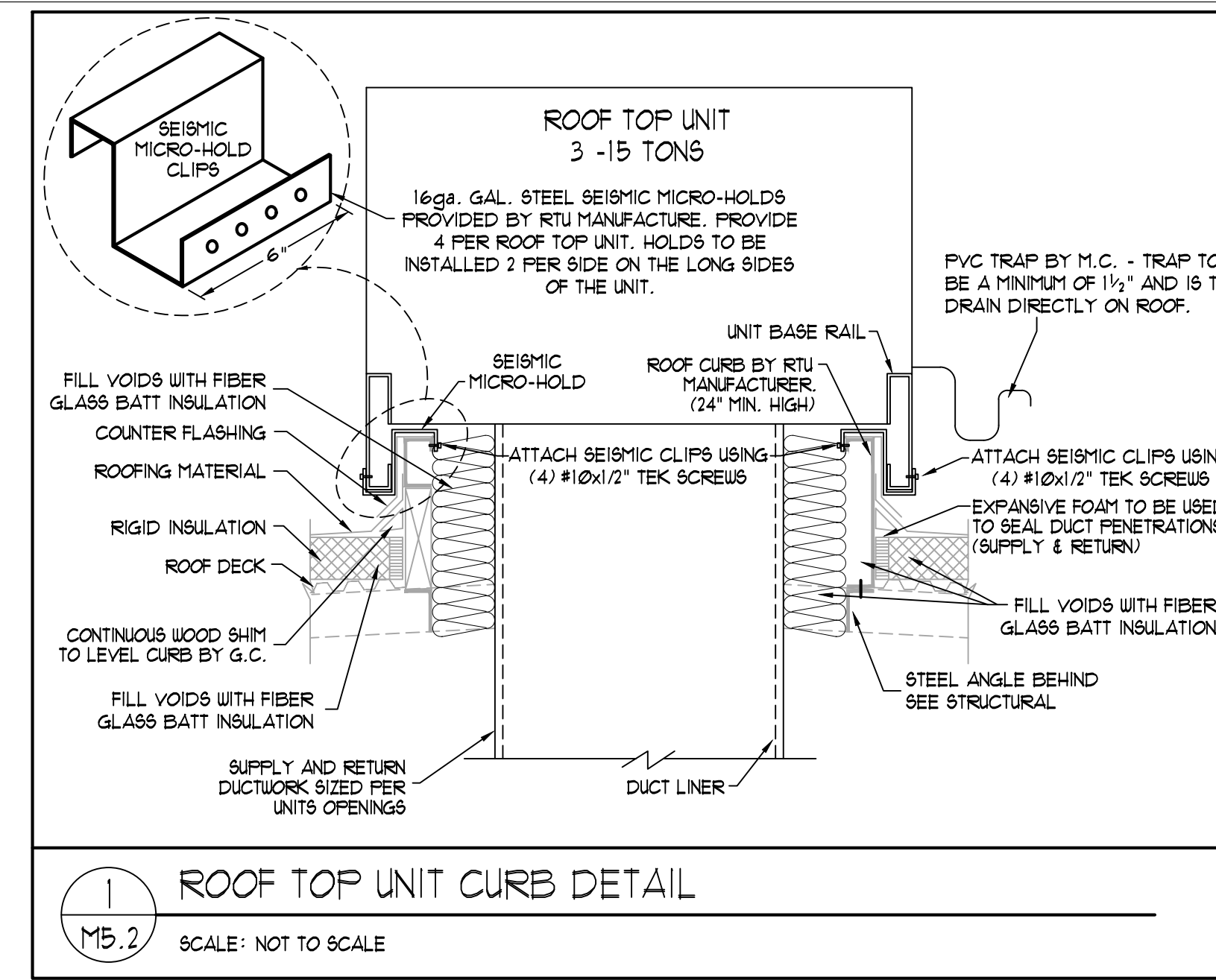
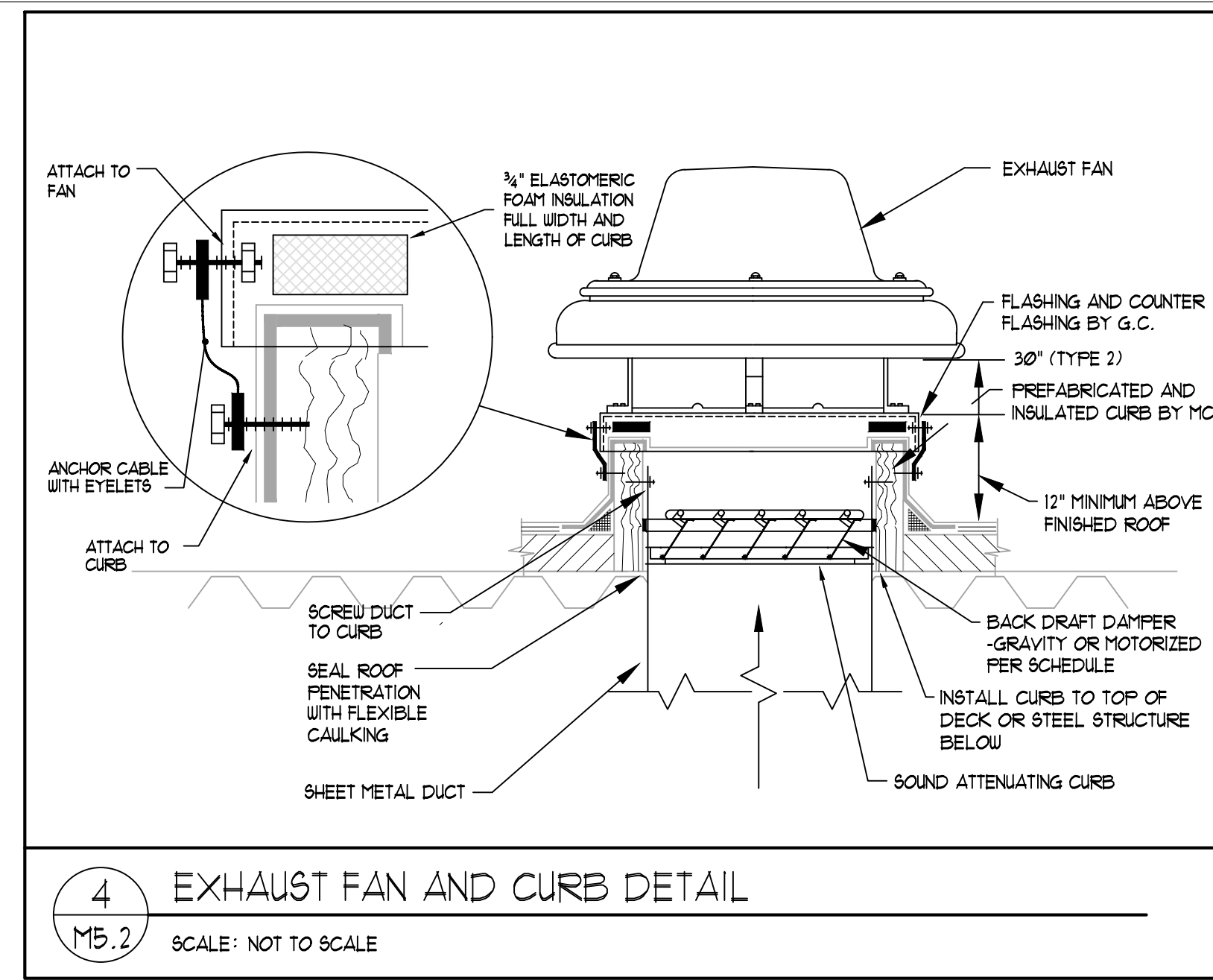
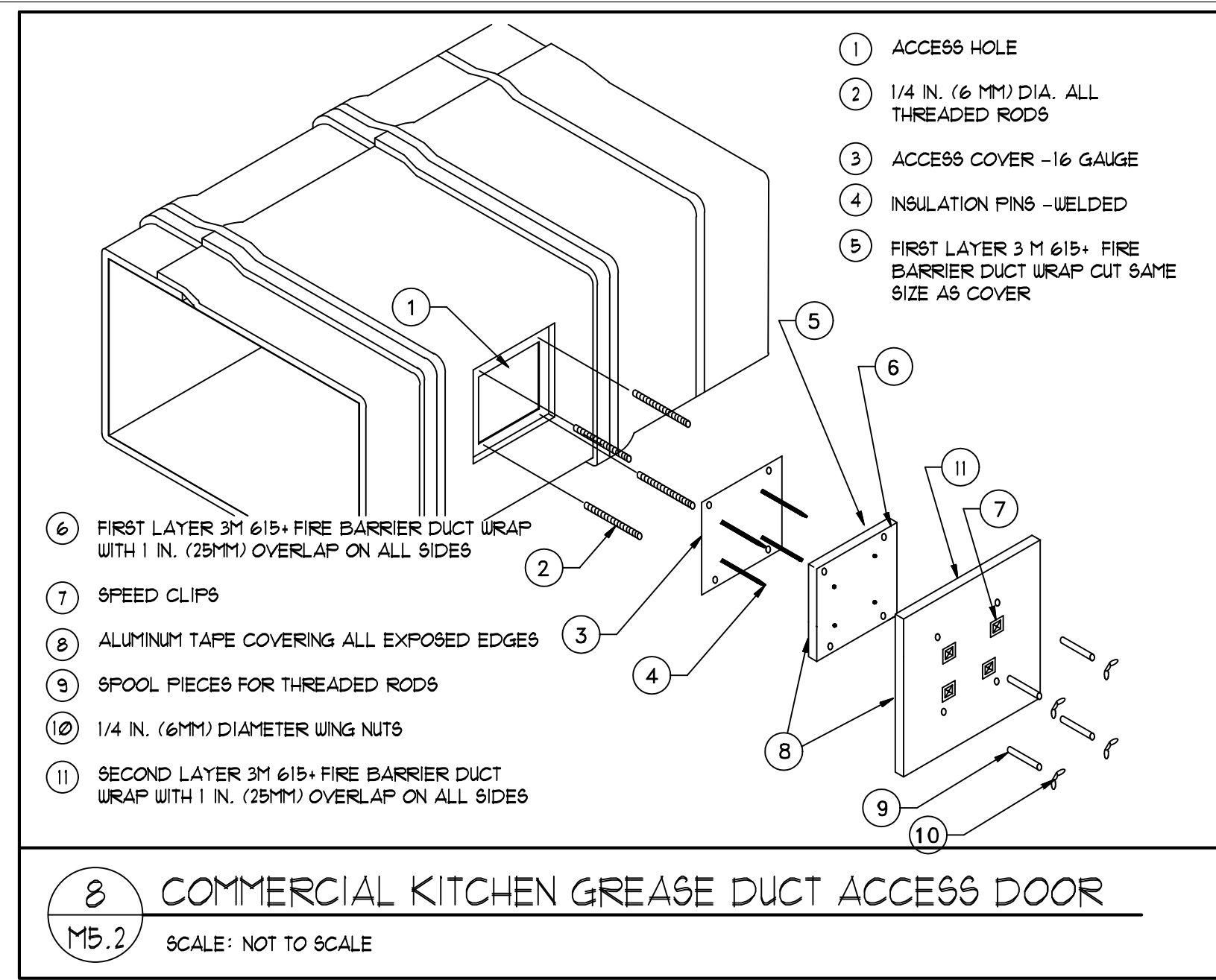
DATE: 11.22.24
 BID SET

SHEET NO.: M1.1C

PVE PROJECT NO.: 24004.04

DRWN BY: BNS

THIS DOCUMENT IS PRELIMINARY AND SHALL REMAIN THE PROPERTY OF PVE INC. ARCHITECT. NO USE OR REPRODUCTION OF THIS DOCUMENT SHALL BE PERMITTED IN ANY MANNER WITHOUT THE WRITING OF PVE INC. WITHOUT THE WRITING OF PVE INC. WITHOUT THE WRITING OF PVE INC. WITHOUT THE WRITING OF PVE INC. WITHOUT THE WRITING OF PVE INC.



PRESCOTT MUIR ARCHITECT
171 WEST PIERPONT AVE. SALT LAKE CITY, UTAH 84101
TEL: 801.521.9111 FAX: 801.521.9158

SMITH'S FOOD AND DRUG STORE #303
560 N STEPHANIE ST
HENDERSON, NV

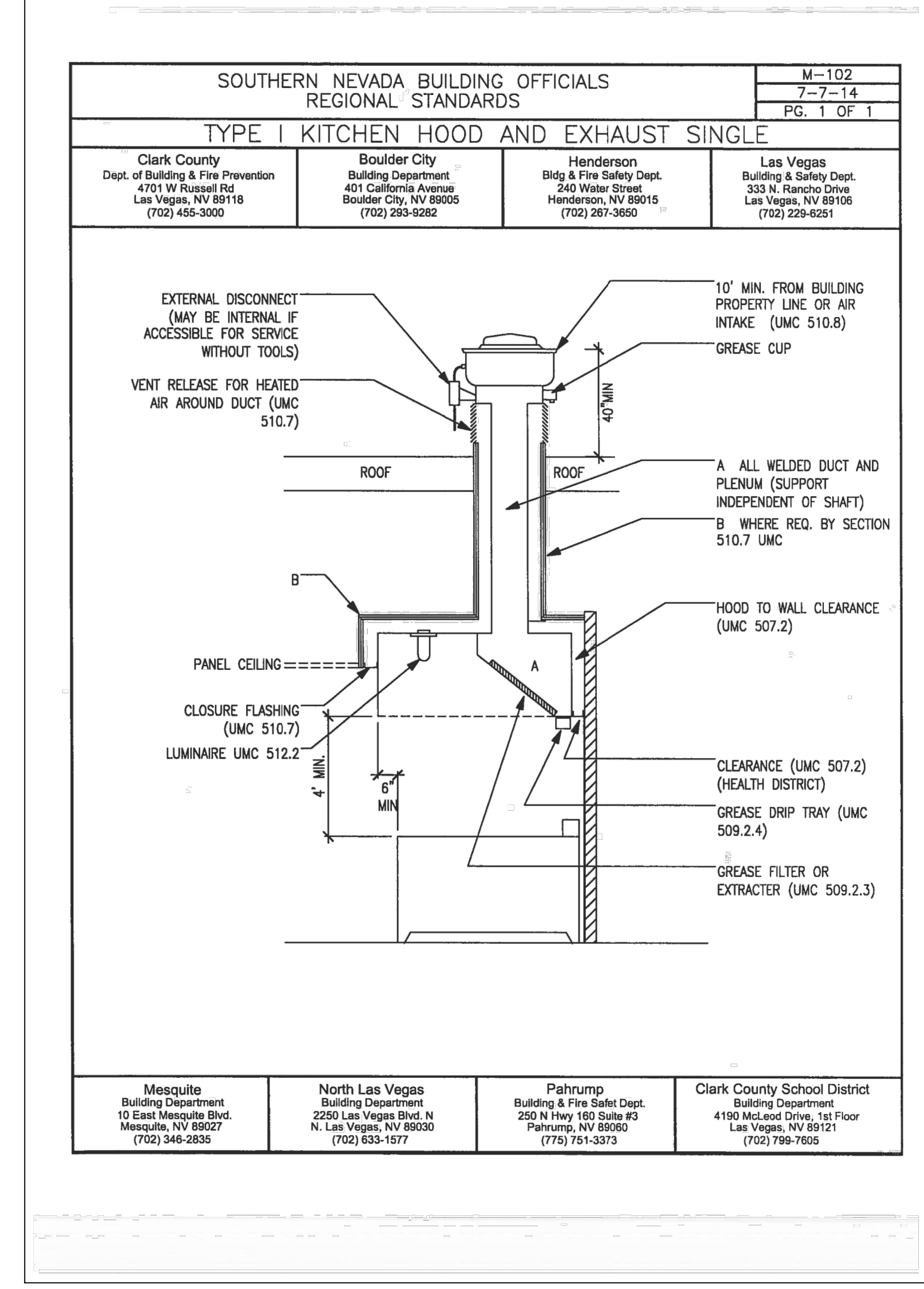
MECHANICAL ENGINEERS
PVE INC. 801359.3158

DRAWN BY: BMS
DATE: 11.22.24
BR/SET

PVE PROJECT NO.: 24004104

THIS DOCUMENT IS PRELIMINARY AND SHALL REMAIN THE PROPERTY OF PVE INC. ARCHITECT. NO USE OR REPRODUCTION OF THIS DOCUMENT SHALL BE PERMITTED IN ANY MANNER WITHOUT THE WRITING OF PVE INC. WITHOUT THE WRITING OF PVE INC. APPROPRIATE CREDIT AND PERMISSION MUST BE OBTAINED.

SHEET NO.: M5.2



SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS			
Clark County Dist. of Building & Fire Prevention 4701 W. Russell Rd. Las Vegas, NV 89118 (702) 455-3000		Boulder City Building Department 601 California Avenue Boulder City, NV 89005 (702) 259-6282	Henderson Bldg. & Fire Safety Dept. 260 Weller Street Henderson, NV 89015 (702) 597-2600
Las Vegas Building & Safety Dept. 333 N. Hancock Drive Las Vegas, NV 89108 (702) 259-6591			
Mesquite Building Department 10 East Mesquite Blvd. Mesquite, NV 89027 (702) 246-2836	North Las Vegas Building Department 2200 Las Vegas Blvd. N. Las Vegas, NV 89030 (702) 653-1577	Pahrump Building & Fire Safety Dept. 200 N. Hwy 159 Suite #3 Pahrump, NV 89060 (775) 751-3375	Clark County School District Building Department 4190 McCord Drive, 1st Floor Las Vegas, NV 89121 (702) 796-7606



PRESCOTT MUIR ARCHITECT

DATE: 11.22.24
RD SET

SHEET NO.: M5.3

DRAWN BY: BMS
PVE PROJECT NO.: 2400414

SMITH'S FOOD AND DRUG STORE #303 560 N STEPHANIE ST HENDERSON, NV

MECHANICAL ENGINEERS PVE INC. 801.866.3166

REGIONAL STANDARD DETAILS

171 WEST PIERPONT AVE.

SALT LAKE CITY, UTAH 84101

TEL: 801.521.9111 FAX: 801.521.9158

801

SMITH'S RTU NOTES:

- 14" INSULATED RTU CURBS / ADAPTORS ARE M.C. PROVIDED / INSTALLED. EXISTING MODEL NUMBERS PROVIDED FOR ADAPTORS IN RTU SCHEDULE. SEE SPEC DIVISION 7 FOR MANUFACTURED CURB INFO.
- PROVIDED WITH DRY BULB ECONOMIZER WITH BAROMETRIC RELIEF (FIELD INSTALLED BY M.C.)
- PROVIDED WITH NON-FUSED DISCONNECT SWITCH (INSTALLED BY E.C.)
- E.C. TO PROVIDE / INSTALL 115V CONVENIENCE OUTLET
- PROVIDED WITH SUPPLY-SIDE SMOKE DETECTOR (DUCT CONNECTIONS BY M.C.)
- DIVISION 28 TO PROVIDE CONNECTIONS BETWEEN SMOKE DETECTORS AND ENERGY MANAGEMENT SYSTEM. UNIT TO SHUT DOWN UPON SMOKE DETECTOR ACTIVATION
- DIVISION 28 TO PROVIDE DIGITAL SPACE SENSORS / CONNECTIONS TO EMS
- PROVIDE EACH RTU WITH 1 EXTRA SET OF FILTERS
- PROVIDE CONDENSATE DRAIN WITH MINIMUM 3" DEEP TRAP. M.C. TO DROP CONDENSATE PIPING INTO JOIST SPACE FOR CONNECTIONS BY P.C.
- RETURN AIR / OUTSIDE AIR SENSORS ARE FACTORY INSTALLED
- M.C. SHALL ENGAGE A FACTORY-PROVIDED SERVICE REPRESENTATIVE TO INSPECT, TEST, AND ADJUST RTUS AND COMPONENTS TO ENSURE PROPER INSTALLATION.
- MANUFACTURER-PROVIDED SERVICE REPRESENTATIVE SHALL BE REQUIRED TO INSPECT EACH RTU AS IT IS POWERED W/ THE UNDERSTANDING THAT EACH RTU MAY BE POWERED AT DIFFERENT TIMES REQUIRING MULTIPLE SITE VISITS FOR EQUIPMENT INSPECTIONS.
- MANUFACTURER-PROVIDED SERVICE REPRESENTATIVE SHALL PROVIDE THE OWNER / G.C. WITH WRITTEN DOCUMENTATION THAT ALL INSTALLATIONS ARE COMPLETE AND ACCURATE PER MANUF. STANDARDS. REFER TO SPEC 237413 FOR ADDITIONAL REQUIREMENTS.

TEST & BALANCING PROCEDURES / REQUIREMENTS:

- ALL TESTING / BALANCING SHALL ADHERE TO AACR (6TH EDITION) OR NEBB (7TH EDITION).
- BEFORE BALANCING, ALL PRESSURE TEST (DUCT LEAKAGE) OF DUCT AND PIPING SYSTEMS MUST BE COMPLETE AND ACCEPTABLE.
- OBTAIN AS-BUILT DESIGN DRAWINGS AND SPECIFICATIONS, AND BECOME THOROUGHLY ACQUAINTED WITH THE DESIGN INTENT.
- OBTAIN COPIES OF APPROVED SHOP DRAWINGS OF ALL AIR HANDLING EQUIPMENT, OUTLETS, AND TEMPERATURE CONTROL DIAGRAMS, INCLUDING PERFORMANCE CURVES. COMPARE DESIGN REQUIREMENTS WITH SHOP DRAWING CAPACITIES.
- CHECK DAMPERS (AS APPLICABLE) FOR CORRECT AND LOCKED POSITION AND TEMP. CONTROL FOR COMPLETENESS OF INSTALLATION BEFORE STARTING FANS.
- CHECK FILTERS FOR CLEANLINESS AND PROPER INSTALLATION. M.C. SHALL REPLACE DIRTY FILTERS PRIOR TO TESTING & BALANCING.
- FIVTUBE TRAVERSE IS THE GENERALLY ACCEPTED METHOD OF MEASURING AIRFLOW IN DUCTS. THE MAXIMUM STRAIGHT RUN SHOULD BE OBTAINED BEFORE AND AFTER THE TRAVERSE STATION - SEE CHAPTER 36 OF ASHRAE FUNDAMENTALS / STANDARD 111.

VESTIBULE REQUIREMENTS (ECC 403.4.1.4):

- HEATING / COOLED VESTIBULES:
- THE HEATING SYSTEMS FOR HEATED VESTIBULES WITH INTEGRAL HEATING SHALL BE PROVIDED WITH CONTROLS CONFIGURED TO SHUT OFF THE SOURCE OF HEATING WHEN THE OUTDOOR AIR TEMPERATURE IS GREATER THAN 45°F. VESTIBULE HEATING AND COOLING SYSTEMS SHALL BE CONTROLLED BY A THERMOSTAT LOCATED IN THE VESTIBULE CONFIGURED TO LIMIT HEATING TO A TEMPERATURE NOT GREATER THAN 60°F AND COOLING TO A TEMPERATURE NOT LESS THAN 55°F.
- SMITH'S DESIGN DATA FOR VESTIBULES:
- 4 AIR CHANGES PER HOUR
- 15% INFILTRATION RATE

TENANT RTU NOTES:

- 14" INSULATED RTU CURB IS M.C. PROVIDED / INSTALLED. SEE SPEC DIVISION 7 FOR MANUFACTURED CURB INFO.
- PROVIDED WITH DRY BULB ECONOMIZER WITH BAROMETRIC RELIEF (FIELD INSTALLED BY M.C.)
- PROVIDED WITH NON-FUSED DISCONNECT SWITCH (INSTALLED BY E.C.)
- E.C. TO PROVIDE / INSTALL 115V CONVENIENCE OUTLET
- PROVIDED WITH SUPPLY-SIDE SMOKE DETECTOR
- DIVISION 28 TO PROVIDE PROVIDE CONNECTIONS BETWEEN SMOKE DETECTORS AND FIRE ALARM CONTROL PANEL UNIT TO SHUT DOWN UPON SMOKE DETECTOR ACTIVATION
- PROVIDE RTU WITH 1 EXTRA SET OF FILTERS.
- PROVIDE CONDENSATE DRAIN WITH MINIMUM 3" DEEP TRAP. M.C. TO DROP CONDENSATE PIPING INTO JOIST SPACE FOR CONNECTIONS BY P.C.
- RETURN AIR / OUTSIDE AIR SENSORS ARE FACTORY INSTALLED
- M.C. SHALL ENGAGE A FACTORY-PROVIDED SERVICE REPRESENTATIVE TO INSPECT, TEST, AND ADJUST RTUS AND COMPONENTS TO ENSURE PROPER INSTALLATION.
- MANUFACTURER-PROVIDED SERVICE REPRESENTATIVE SHALL PROVIDE THE OWNER / G.C. WITH WRITTEN DOCUMENTATION THAT ALL INSTALLATIONS ARE COMPLETE AND ACCURATE PER MANUF. STANDARDS. REFER TO SPEC 237413 FOR ADDITIONAL REQUIREMENTS.
- M.C. TO PROVIDE / INSTALL 7 DAY PROGRAMMABLE DIGITAL THERMOSTAT WITH AUTO CHANGEOVER, 5" DEAD-BAND, SETBACKS (55° / 85°), 2 HOUR OCCUPANT OVERRIDE, 10 HOUR BACK-UP.

CO2 SENSOR SEQUENCE OF OPERATIONS

OUTSIDE AIR DAMPERS WILL BE SET TO MINIMUM OUTSIDE AIR PER RTU / VENTILATION SCHEDULES. DAMPERS SHALL ADJUST UP TO 100% OUTSIDE AIR BASED ON CO2 SENSOR READINGS. CO2 SENSORS SHALL BE MOUNTED IN SPACE AND OUTSIDE AT RTU. IF CO2 LEVELS IN THE SPACE REACH 100 PPM GREATER THAN THE OUTSIDE AIR, THE OA DAMPERS WILL BEGIN TO OPEN AND WILL MODULATE OPEN UNTIL CO2 READINGS INSIDE AND OUTSIDE ARE THE SAME. UPON READING 10% ABOVE ACCEPTABLE LEVEL, SENSOR SHALL PROVIDE A VISUAL OR AUDIBLE ALERT AT UNIT. CO2 SENSORS SHALL BE INSTALLED AT SAME ELEVATION AS THERMOSTATS. CO2 SENSOR IS OWNER-PROVIDED, INSTALLED BY DIVISION 28.

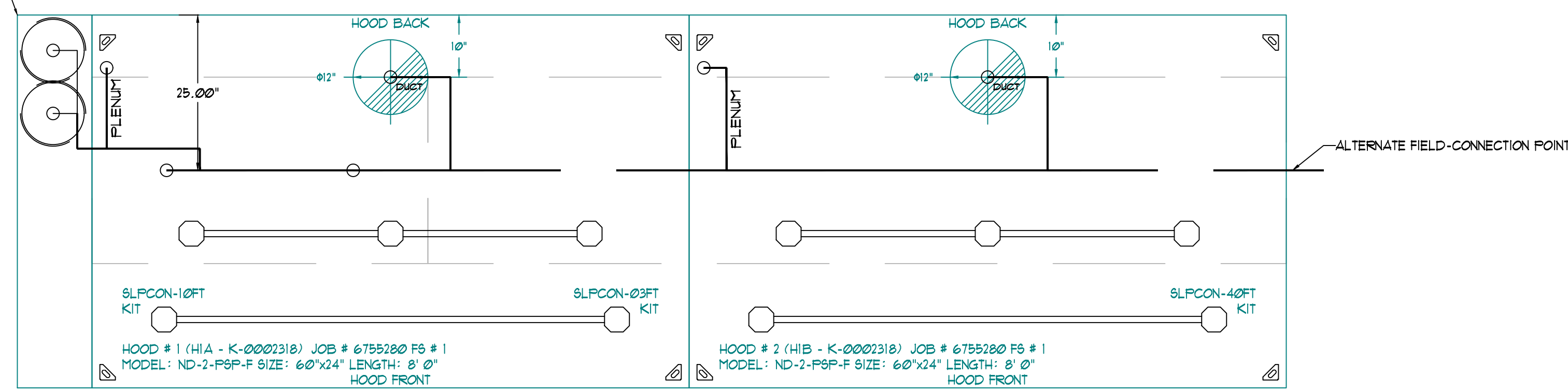
RTU SCHEDULE - SMITH'S 303
RTU'S ARE OWNER-PROVIDED, M.C. INSTALLED. CURBS / CURB ADAPTORS ARE M.C. PROVIDED / M.C. INSTALLED

TAG	AREA SERVED	MODEL	TONS	BRAND	BLOWER										COOLING				HEATING				ELECTRICAL			ALT. (ASL')	WEIGHT (LBS)	REMARKS			
					CFM				ESP (INWG)	Temperature (°F)				OD Amb	Capacity MBH	Total	Sens.	ENERGY	REFRIGERANT	Temp (°F)		Heating Gas		Voltage	MCA				MOCIP	DRAIN SIZE	
					SA	OA	RA	HP		Ent. Air DB	WB	Lvg. Air DB	WB							Ent. DB	Lvg. DB	In	Out								MBH
RTU-A-2	BAKERY	LGT036H5E	3	LENNOX	1200	254	946	0.5	0.65"	80.4	60.9	55.2	51.1	108.4	32.6	31.1	17.5 SEER2	13.5 EER2	R-454b	58.6	99.5	65	52	80.0	460/3	10	15	1"	2,548'	870	REPLACES CARRIER MODEL: 50TFQ005, SERIAL: 1405G40443. CURB ADAPTOR IS ACCEPTABLE.
RTU-A-3	SALES	LGT240H5M	20		8000	650	7350	4.62	0.65"	78.7	57.7	56.3	48.5	200.9	187.5	15.4 IEER	12 EER		208.3	193.2	260	211	81.0		44	50	1"		2,975	REPLACES LENNOX MODEL: LGH240H4M53G SERIAL: 5618K08942. PROVIDE AES DROP BOX DIFFUSER ADB-6-25 AND FACTORY DAMPERS.	
RTU-A-4	SEAFOOD	LCT036H5E	3		1200	200	1000	0.5	0.50"	78.9	59.7	54.3	49.9	32	30.8	17.5 SEER2	13.5 EER2								10	15	1"		786	REPLACES CARRIER MODEL: 50TFQ005.	
RTU-A-5	DOCK	LGT156H5M	13		5000	510	4490	3.75	0.50"	76.6	56.2	54.6	46.7	125.2	120.2	15.4 IEER	12 EER		63.9	99.8	260	211	81.0		30	35	1"		2,400	REPLACES CARRIER MODEL: 48HID007. PROVIDE AES DROP BOX DIFFUSER ADB-1-12-4 AND FACTORY DAMPERS. SEE DETAIL 1, SHEET M5.1.	
RTU-A-7	CONFERENCE ROOM	LGT060H5E	5		2000	300	1700	1.2	0.65"	77.3	56.7	53.5	46.6	53.7	49.9	16.4 SEER2	12.5 EER2		63.1	102.9	108	87	81.0		14	15	1"		877	M.C. TO PROVIDE RTU CURB. SEE DIVISION 7 SPECS. CO2 SENSOR FOR DEMAND CONTROL VENTILATION BY OWNER, INSTALLED BY DIVISION 28.	
RTU-A-8	BREAK ROOM	LGT060H5E	5		2000	313	1687	1.2	0.65"	78.5	57.5	54.4	47.4	54.3	50.5	16.4 SEER2	12.5 EER2		61.8	101.5	108	87	81.0		14	15	1"		877	M.C. TO PROVIDE RTU CURB. SEE DIVISION 7 SPECS. CO2 SENSOR FOR DEMAND CONTROL VENTILATION BY OWNER, INSTALLED BY DIVISION 28.	
RTU-A-9	DOCK	LGT072H5E	6.0		2400	240	2160	1.32	0.65"	82.8	60.6	54.7	47.6	63.7	59.5	17.3 IEER	12.2 EER		61.3	94.5	108	87	81.0		16	20	1"		830	REPLACES EXISTING RTU: LENNOX GCS-16-261-50. PROVIDE AES DROP BOX DIFFUSER ADB-1-7-4 AND FACTORY DAMPERS. SEE DETAIL 1, SHEET M5.1.	
RTU-A-10	DOCK	LGT092H5E	7.5		3000	260	2740	1.28	0.75"	82.8	60.8	58	50.9	80.9	76.8	16.1 IEER	12.3 EER		61.3	93.4	130	104	81.0		22	25	1"		1,307	PROVIDE AES DROP BOX DIFFUSER ADB-1-7-4 AND FACTORY DAMPERS. SEE DETAIL 1, SHEET M5.1.	
RTU-A-11	DOCK	LGT120H5E	10		4000	260	3740	2.28	0.5"	84.5	61.8	59.7	52.3	109.9	102.6	16.1 IEER	12.1 EER		59.5	92.8	180	144	81.0		23	30	1"		1,355	PROVIDE AES DROP BOX DIFFUSER ADB-1-10-4 AND FACTORY DAMPERS. SEE DETAIL 1, SHEET M5.1.	
RTU-C-7	PHARMACY	LGT072H5E	6		2400	475	1925	1.32	0.65"	80	60.5	55.3	50.8	65.7	61.5	17.3 IEER	12.2 EER		60.1	106.4	150	121	81.0		16	20	1"		888	M.C. TO PROVIDE RTU CURB. SEE DIVISION 7 SPECS.	
RTU-C-8	VESTIBULE (HORIZ. SUPPLY, VERT. RETURN)	LGT092H5E	7.5		3000	205	2795	1.47	1.0"	86.7	61.1	62	51.6	81.3	76.6	16.1 IEER	12.3 EER		58.1	90.2	130	104	81.0		22	25	1"		1,304	M.C. TO PROVIDE RTU CURB. SEE DIVISION 7 SPECS.	
RTU-D-1	OFFICES	LGT102H5E	8.5	3000	260	2740	1.13	0.60"	76.6	55.7	52	45	81.1	77.5	16.1 IEER	12.1 EER		64.5	96.6	130	104	80.0		22	25	1"		1,314	REPLACES CARRIER MODEL: 48HID009, SERIAL: 2405G40666. CURB ADAPTOR IS ACCEPTABLE.		
RTU-D-2	SALES	LGT120H5E	10	4000	1000	3000	2.05	0.5	84.5	61.8	59.3	52.2	109.9	130.4	16.1 IEER	12.1 EER		59.5	92.8	180	144	81.0		23	30	1"		1,355	REPLACES LENNOX MODEL: LG240S51. PROVIDE AES DROP BOX DIFFUSER ADB-1-10-4 AND FACTORY DAMPERS. SEE DETAIL 1, SHEET M5.1.		
RTU-D-4	SEATING	LGT156H5M	13	5000	740	4260	1.65	0.50"	78.2	57.3	55.6	48	127.6	121.7	15.4 IEER	12 EER		62.1	98	260	211	81.0		30	35	1"		2,400	REPLACES LENNOX MODEL: GCS26-653-125-22. CURB ADAPTOR IS ACCEPTABLE. CO2 SENSOR FOR DEMAND CONTROL VENTILATION BY OWNER, INSTALLED BY DIVISION 28.		
RTU-D-5	DELI	LGT120H4E	10	4000	550	3450	2.46	0.5	84.5	61.8	60.8	52.8	106.2	98.4	IEER: 15.5	EER: 12.1		59.5	92.8	180	144	81.0		25	30	1"		1,355	REPLACES CARRIER MODEL: 48HJD009M651HQ, SERIAL: 2405G40666. CURB ADAPTOR IS ACCEPTABLE.		
RTU-D-6	TENANT	LGT092H5E	7.5	3000	300	2700	1.47	1.0"	79.2	58.1	55.5	48.4	79	74.3	16.1 IEER	12.3 EER		65.8	97.9	130	104	80.00		22	25	1"		1,307	STUB DUCTS INTO SPACE JUST BELOW STRUCTURE FOR FUTURE CONNECTIONS BY OTHERS. SEE TENANT RTU NOTES, SHEET M6.2.		

VENTILATION CALCULATIONS - SMITH'S 303

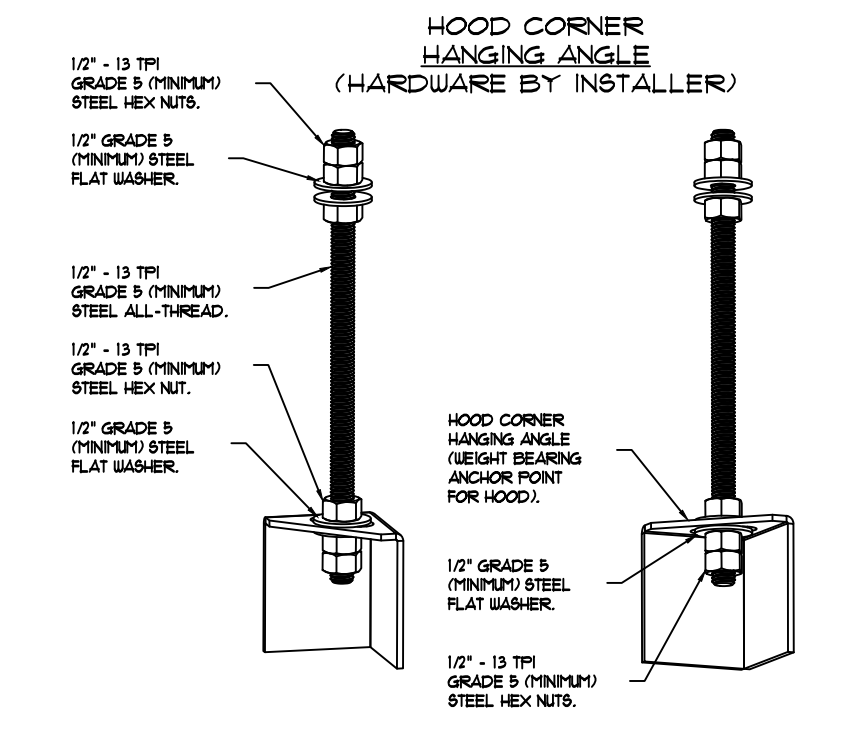
ZONE	ROOM	EQUIPMENT TAG	CODE OCCUPANCY CLASSIFICATION	STATUS	SUPPLY CFM	PERCENT OUTSIDE AIR	PEOPLE OUTDOOR AIR RATE (Rp) (cfm/person)	ZONE POPULATION (Pz) (people / 1000 sqft)	Rp * Pz	OCCUPANT DENSITY (Ra) (cfm/sqft)	ZONE FLOOR AREA (Az) (sqft)	Ra * Az	BREATHING ZONE (Vbz = Rp * Pz + Ra * Az)	AIR DISTRIBUTION EFFECTIVENESS (Ez) ceiling supply/return warm air	ZONE OUTDOOR AIR FLOW RATE (Voz = Vbz / Ez)	BALANCING OUTSIDE AIR VALUES
A-1	SALES - SECTION A	RTU-A-1	SUPERMARKET	EXISTING	8,000	8%	7.5	6	221.85	0.06	4950	295.8	517.65	0.8	647.06	650
A-2	BAKERY	RTU-A-2	PREP AREA	NEW - BY OWNER	1,200	21%	5	10	64.9	0.18	1298	233.64	298.54	0.8	373.18	254
A-3	SALES - SECTION A	RTU-A-3	SUPERMARKET	NEW - BY OWNER	8,000	8%	7.5	6	222.75	0.06	4950	297	519.75	0.8	649.69	650
A-4	SEAFOOD	RTU-A-4	PREP AREA	NEW - BY OWNER	1,200	17%	5	2	8.4	0.18	840	151.2	159.60	0.8	199.50	200
A-5	DOCK	RTU-A-5	SHIPPING / RECEIVING	NEW - BY OWNER	5,000	10%	10	2	60	0.12	3000	360.00	420.00	0.8	525.00	510
A-6	RESTROOMS	RTU-A-6	RESTROOMS	EXISTING	1,200	10%	0	0	0		767					120
A-7	CONF. ROOM	RTU-A-7	CONFERENCE	NEW - BY OWNER	2,000	15%	5	50	191.25	0.06	765	45.90	237.15	0.8	296.44	300
A-8	BREAKROOM	RTU-A-8	BREAKROOM	NEW - BY OWNER	2,000	16%	5	50	132.5	0.12	530	63.6	196.10	0.8	245.13	313
A-8	BREAKROOM	RTU-A-8	OFFICE	NEW - BY OWNER	2,000	16%	5	5	1.75	0.06	63	3.78	5.36	0.8	6.69	
A-8	BREAKROOM	RTU-A-8	STORAGE	NEW - BY OWNER	2,000	16%	5	2	4.94	0.06	494	29.64	34.58	0.8	43.23	
A-9	DOCK	RTU-A-9	SHIPPING / RECEIVING	NEW - BY OWNER	2,400	10%	10	2	26.8	0.12	1340	160.80	187.60	0.8	234.50	240
A-10	DOCK	RTU-A-10	SHIPPING / RECEIVING	NEW - BY OWNER	3,000	10%	10	2	29.54	0.12	1477	177.24	206.78	0.8	258.48	300
A-11	DOCK	RTU-A-11	SHIPPING / RECEIVING	NEW - BY OWNER	4,000	8%	10	2	29.54	0.12	1477	177.24	206.78	0.8	258.48	300
B-1	SALES - SECTION B	RTU-B-2	SUPERMARKET	EXISTING	8,000	9%	7.5	6	244.62	0.06	5436	326.16	570.78	0.8	713.48	715
B-2	SALES - SECTION B	RTU-B-2	SUPERMARKET	EXISTING	8,000	10%	7.5	6	259.245	0.06	5761	345.66	604.91	0.8	756.13	760
B-3	SALES - SECTION B	RTU-B-3	SUPERMARKET	EXISTING	8,000	8%	7.5	6	212.175	0.06	4715	282.9	495.08	0.8	618.84	620
B-4	SALES - SECTION B	RTU-B-4	SUPERMARKET	EXISTING	8,000	8%	7.5	6	224.37	0.06	4986	299.16	523.53	0.8	654.41	655
B-5	SALES - SECTION B	RTU-B-5	SUPERMARKET	EXISTING	8,000	8%	7.5	6	229.5	0.06	5100	306	535.50	0.8	669.38	670
B-6	SALES - SECTION B	RTU-B-6	SUPERMARKET	EXISTING	8,000	8%	7.5	6	208.89	0.06	4642	278.52	487.41	0.8	609.26	610
B-7	BACKROOM	RTU-B-7	SHIPPING / RECEIVING	EXISTING	4,000	19%	10	2	84.66	0.12	4233	507.96	592.62	0.8	740.78	745
B-8	BACKROOM	RTU-B-8	SHIPPING / RECEIVING	EXISTING	4,000	20%	10	2	89.84	0.12	4492	539.04	628.88	0.8	786.10	790
C-1	SALES - SECTION C	RTU-C-1	SUPERMARKET	EXISTING	10,000	8%	7.5	6	280.305	0.06	6229	373.74	654.05	0.8	817.56	820
C-2	SALES - SECTION C	RTU-C-2	SUPERMARKET	EXISTING	8,000	7%	7.5	6	194.175	0.06	4315	258.90	453.08	0.8	566.34	570
C-3	SALES - SECTION C	RTU-C-3	SUPERMARKET	EXISTING	8,000	8%	7.5	6	217.755	0.06	4839	290.34	508.10	0.8	635.12	640
C-4	SALES - SECTION C	RTU-C-4	SUPERMARKET	EXISTING	8,000	11%	7.5	6	311.535	0.06	6923	415.38	726.92	0.8	908.64	910
C-5	GAMING	RTU-C-5	ARCADE	EXISTING	4,000	13%	7.5	20	94.35	0.18	629	113.22	207.57	0.8	259.46	500
C-6	CUSTOMER SERVICE	RTU-C-6	OFFICE	EXISTING	4,000	3%	5	5	29.425	0.06	1177	70.62	100.05	0.8	125.06	130
C-6	CUSTOMER SERVICE	RTU-C-6	PHARMACY (PREP AREA)	EXISTING	4,000	3%	5	10	76.9	0.18	1538	276.84	353.74	0.8	442.18	
C-7	PHARMACY	RTU-C-7	OFFICE	NEW - BY OWNER	2,400	20%	5	5	3.525	0.06	141	8.46	11.99	0.8	14.98	475
C-7	PHARMACY	RTU-C-7	STORAGE	NEW - BY OWNER	2,400	20%	5	2								

* SYSTEM REQUIRES A MINIMUM OF 7 FT. OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR POOF APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS.



NOTES

- FIELD PIPE DROPS AS SHOWN.
- PIPING, ELBOUS, TEES AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT.-LBS.

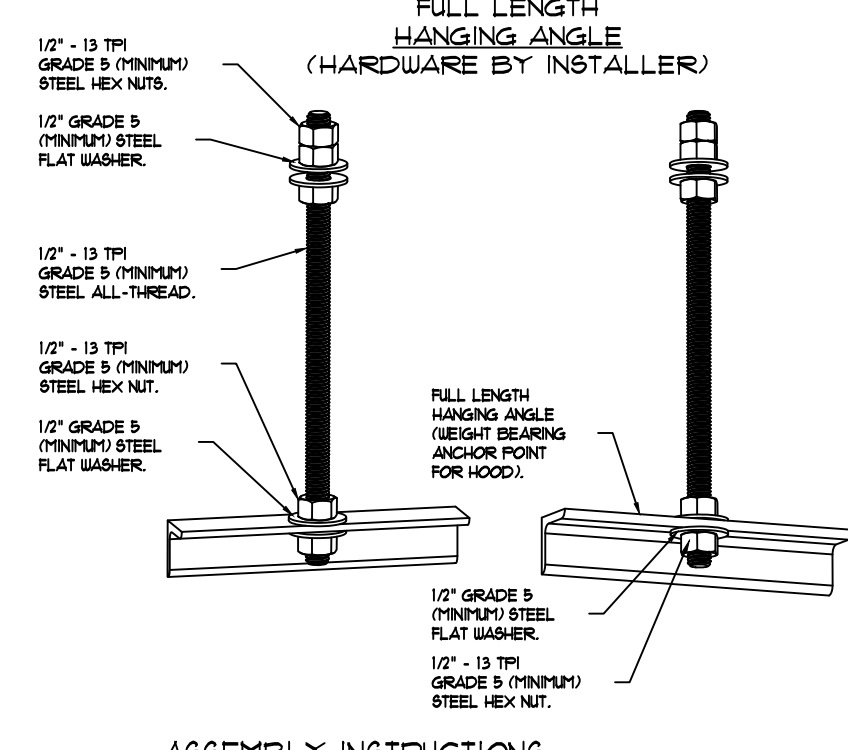
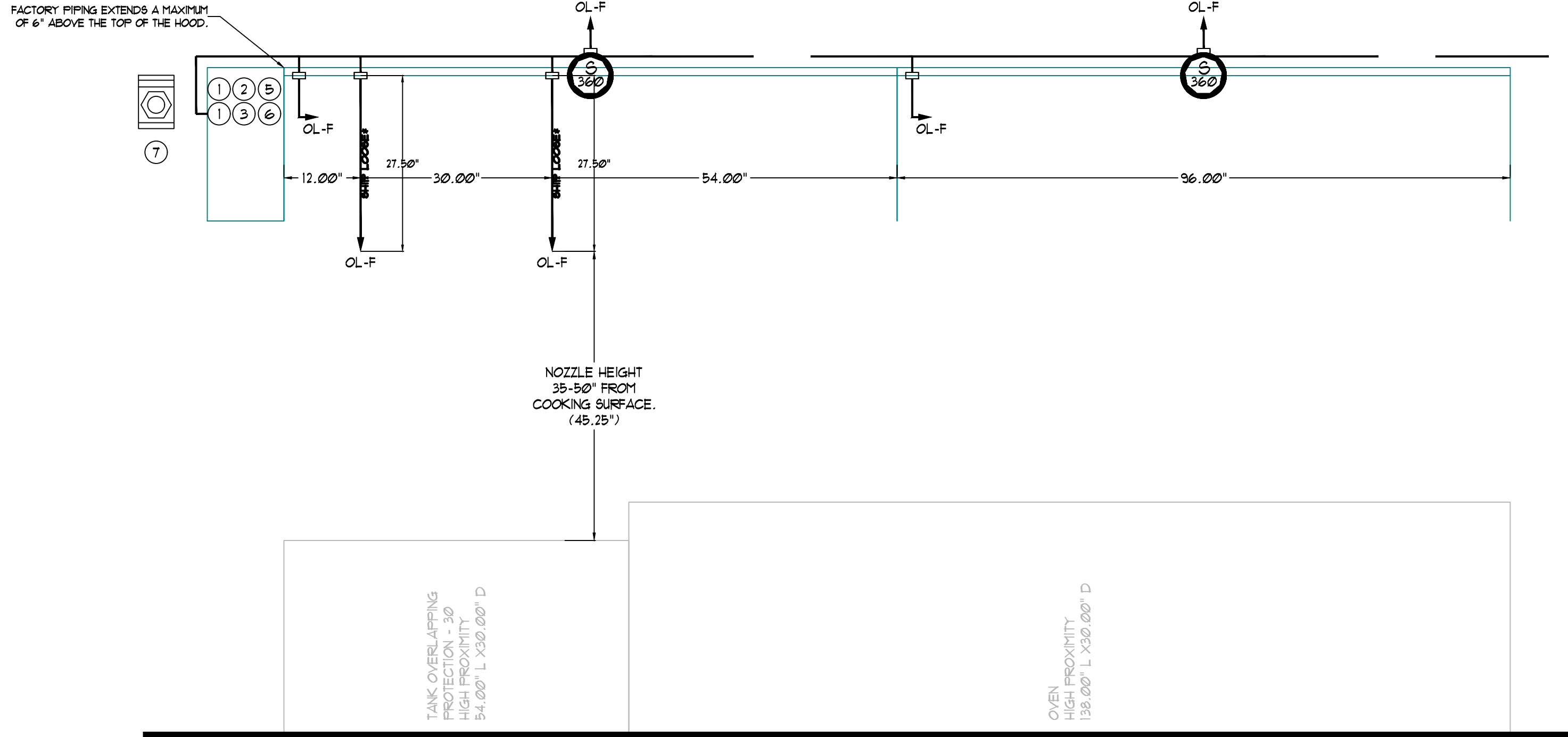
- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-55
JOB #: 6755280
JOB NAME: SMITH'S 303 HENDERSON, NV.

SYSTEM SIZE: TANK-6P-2 DESIGN FF: 26, MAXIMUM FF: 40.
HOOD # 1 8' 0" 00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 12" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 8' 0" 00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 12" DIA.
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTEAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTEAM DETECTION.

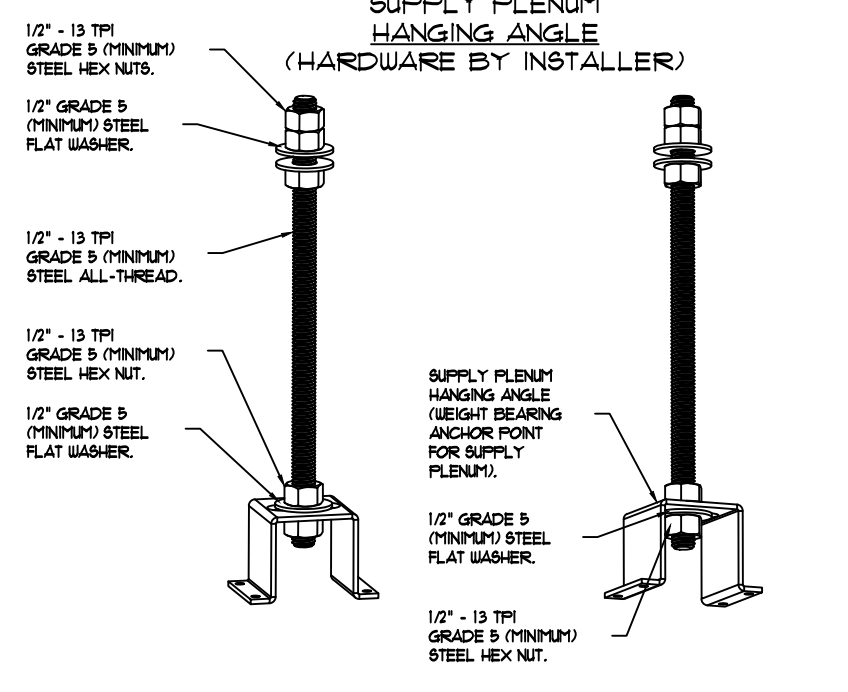
LEGEND - FIRE CABINET TANK SYSTEM

- 1 4 GALLON TANK.
- 2 PRIMARY ACTUATOR RELEASE.
- 3 SECONDARY ACTUATOR RELEASE.
- 4 PRESSURE SUPERVISION SWITCH.
- 5 PRIMARY HOSE ASSEMBLY.
- 6 SECONDARY HOSE ASSEMBLY.
- 7 REMOTE MANUAL ACTUATION DEVICE.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT.-LBS.



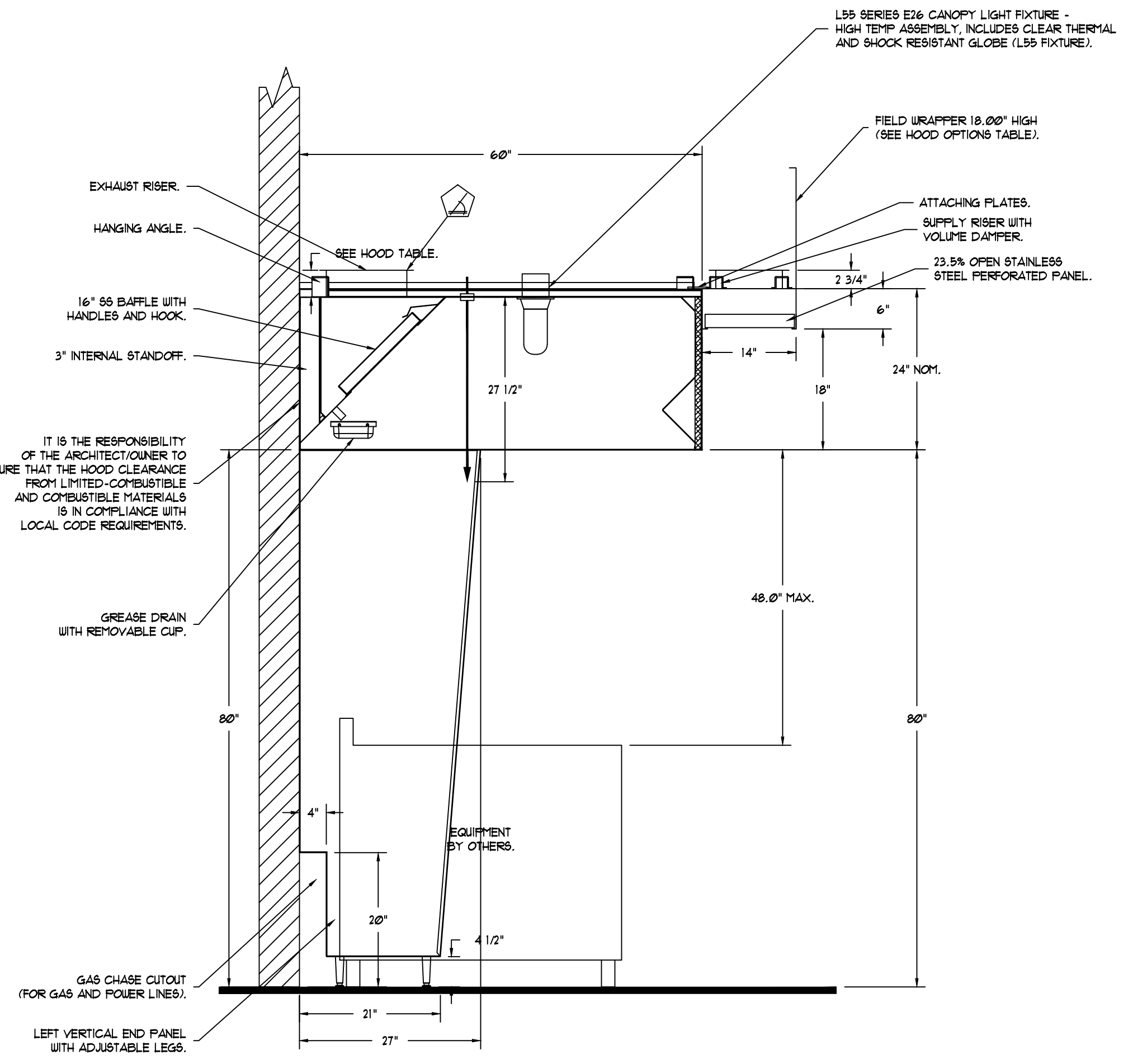
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT.-LBS.

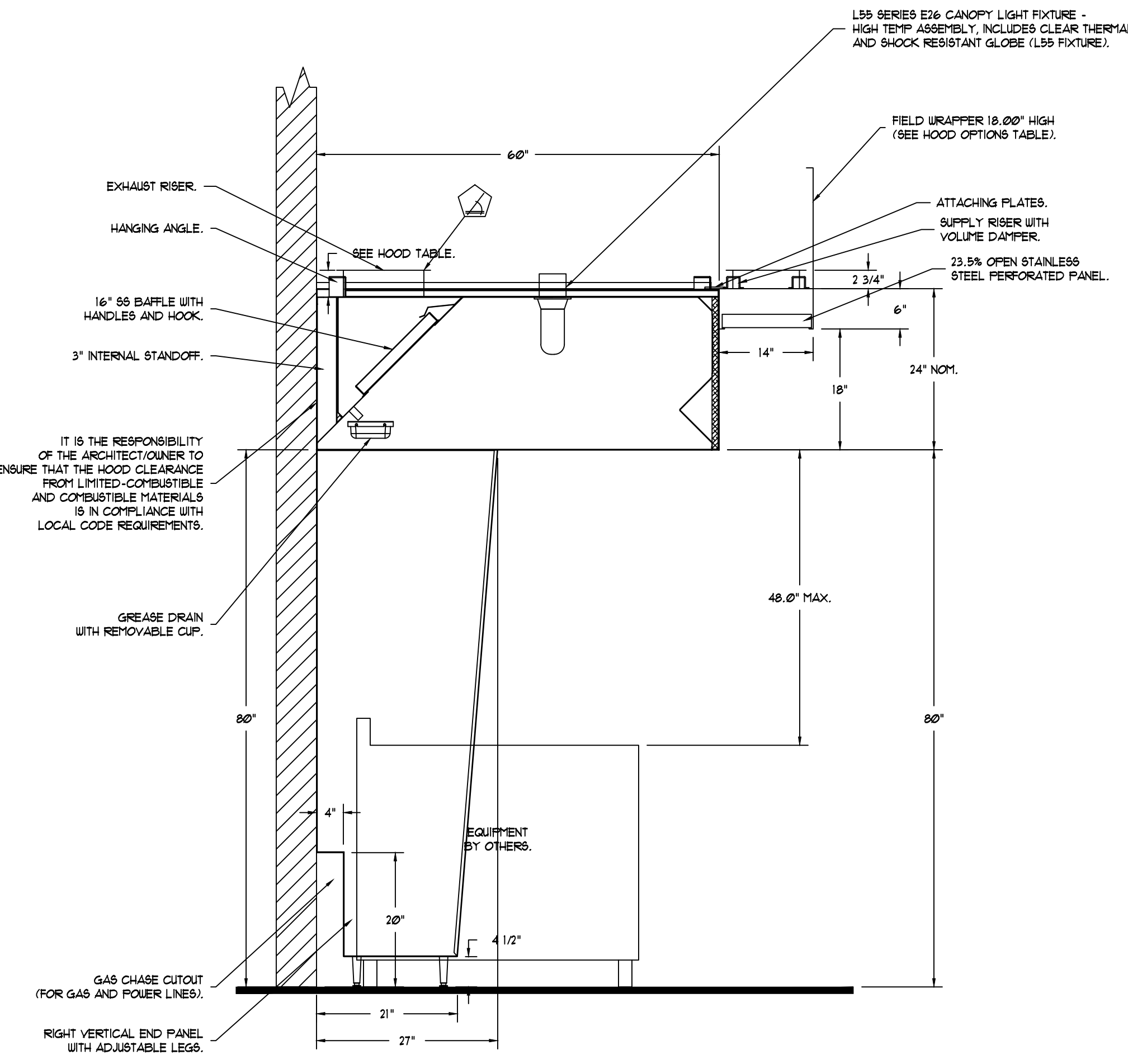
CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	1" CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	0"
2	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"

- 40" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



SECTION VIEW - MODEL 6024ND-2-PSP-F HOOD - #1



SECTION VIEW - MODEL 6024ND-2-PSP-F HOOD - #2

PRESCOTT MUIR ARCHITECT 171 WEST PIERPONT AVE. SALT LAKE CITY, UTAH 84101 TEL: 801.521.9111 FAX: 801.521.9158

MECHANICAL ENGINEERS PVE INC. 801.866.3156 SMITH'S FOOD AND DRUG STORE #303 560 N STEPHANIE ST HENDERSON, NV PVE PROJECT NO: 24004104



SHEET NO: M6.4

DATE: 11.22.24
JOB SET

DRWN BY: BMS

HOOD INFORMATION - JOB#6755280
HOOD INFORMATION: OWNER-PROVIDED, M.C. INSTALLED

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM						TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL			SP	END TO END
1	HIA - K-0002318	6024 ND-2-PSP-F	CAPTIVEAIRE	8' 0"	450 DEG	1	MEDIUM	175	1400							304 SS	LEFT	ALONE	
2	HIB - K-0002318	6024 ND-2-PSP-F	CAPTIVEAIRE	8' 0"	450 DEG	1	MEDIUM	175	1400						304 SS	WHERE EXPOSED	RIGHT	ALONE	

HOOD INFORMATION

HOOD NO	TAG	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD WEIGHT	UMC 900.4	TOTAL WEIGHT
												TYPE	SIZE						
1	HIA - K-0002318	55 BAFFLE WITH HANDLES	5	16"	16"	30%	3	L55 SERIES E26	NO	LEFT	12"x60"x24"	TANK F5	4.0/4.0	SC-31110MA	1 LIGHT 1 FAN	YES	836 LBS	800 LBS	1636 LBS
2	HIB - K-0002318	55 BAFFLE WITH HANDLES	5	16"	16"	30%	3	L55 SERIES E26	NO							YES	494 LBS	800 LBS	1294 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	HIA - K-0002318	FIELD WRAPPER 18.00" HIGH FRONT, LEFT. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS. SENSOR-CV.
2	HIB - K-0002318	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS. SENSOR-CV.

PERFORATED SUPPLY PLENUM(S): OWNER PROVIDED, M.C. INSTALLED

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISERS(S)			
							WIDTH	LENG	DIA	SP
1	HIA - K-0002318	Front	108"	14"	6"	M/A	8"	36"	635	0.155"
2	HIB - K-0002318	Front	96"	14"	6"	M/A	8"	36"	627	0.176"

FIRE SYSTEM INFORMATION - JOB#6755280 - OWNER PROVIDED, M.C. INSTALLED

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	SYSTEM	LOCATION ON HOOD
1		TANK F5	4.0/4.0	40	26	FIRE CABINET LEFT	LEFT HOOD 1

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 12-F28071-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO CLOSE ON TEMP RISE AT 360°F. (A0024310).	2	0
		0 - 32-00002 QUIK SEAL - 1/2" (UL).	2	0
		0 - 361091 3/8" BRASS FLUG.	3	0
		0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 78425 3/8" NPT FEMALE TO 1/2" MALE PROGRESS ADAPTER.	3	0
		0 - 78525 1/2" 90 FRO-FRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 78560 1/2" X 1/2" FRO-FRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 87-100040-000 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 87-500152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 9055455FC FRO FRESS 1/2 FRESS X FRESS 3/8 ELBOW LD.	8	0
		0 - 9057200FC FRO FRESS PC611 1/2 FRESS TEE LD.	6	0
		0 - 986544115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - A0024332 JUNCTION BOX FOR MANUAL FULL STATION, 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - A31484 1/4" NPT SCRADER VALVE AND CAP, JB INDUSTRIES, 1/4" FLARE X 1/4" MPT HALF UNION, USED ON TANK SERVICE PORT.	1	0
		0 - B1145 3/8" BLACK IRON 90 ELL.	4	0
		0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - SLPFCN-03FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 2' GAP. KIT CONTAINS 5 FEET OF BLACK MG WIRE, 5 FEET OF TAN MG WIRE, 3 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - SLPFCN-40FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UP TO 39' GAP. KIT CONTAINS 42 FEET OF BLACK MG WIRE, 42 FEET OF TAN MG WIRE, 40 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - TFS-DUCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - UK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	6	0
		16 - 16 - OL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	6	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	6	0
		34 - 34 - A0024331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT, RED COLOR.	1	0

ELECTRICAL PACKAGE - JOB#6755280 - OWNER PROVIDED, M.C. INSTALLED

NO	TAG	PACKAGE #	LOCATION	SWITCHES	OPTION	FANS CONTROLLED					
						FAN TAG	TYPE	HP	VOLT	FLA	
1		SC-31110MA	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	K-0006366	EXHAUST	3	2,000	208	8.3
			HOOD # 1	1 FAN		5F-1 FNET42845	SUPPLY	3	1,500	208	6.6

EXHAUST FAN INFORMATION - JOB#6755280
EXHAUST FAN: OWNER PROVIDED, M.C. INSTALLED. CURBS PROVIDED / INSTALLED BY M.C.

FAN UNIT NO	K-FRQ	QTY	AREA SERVED	METHOD OF CONTROL	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
EF-1A	K-00067365	1	HOOD 1A	HEAT SENSOR	DUB5HFA	CAPTIVEAIRE	1400	1.250	1381	TEAO-ECM	0.750	0.4470	1	115	8.9	443 FPM	90	11.9
EF-1B	K-00067365	1	HOOD 1B	HEAT SENSOR	DUB5HFA	CAPTIVEAIRE	1400	1.250	1381	TEAO-ECM	0.750	0.4470	1	115	8.9	443 FPM	90	11.9
EF-2	FNET42845	1	FRONT RESTROOMS	ENERGY MANAGEMENT SYSTEM	DR30HFA	CAPTIVEAIRE	800	0.500	1507	TEAO-ECM	0.333	0.1850	1	115	4.3		63	10.9
EF-3	FNET42845	1	BACK RESTROOMS	ENERGY MANAGEMENT SYSTEM	DR50HFA	CAPTIVEAIRE	1100	0.500	1294	TEAO-ECM	0.500	0.2350	1	115	6.3		70	11.4
EF-4	K-00067365	1	BAKERY OVEN	EQUIPMENT INTERLOCK	DUB5HFA	CAPTIVEAIRE	900	1.200	1248	TEAO-ECM	0.750	0.3200	1	115	8.9	285 FPM	94	9.7
EF-5	K-00067365	1	BAKERY OVEN	EQUIPMENT INTERLOCK	DUB5HFA	CAPTIVEAIRE	900	1.200	1248	TEAO-ECM	0.750	0.3200	1	115	8.9	285 FPM	94	9.7
EF-6	FNET42845	1	DOCK ELECT.	THERMOSTAT (85°F)	DR30HFA	CAPTIVEAIRE	700	0.25	1222	TEAO-ECM	0.333	0.093	1	115	4.3		64	7.2
EF-7	FNET42845	1	FAMILY RESTROOMS	ENERGY MANAGEMENT SYSTEM	DR12HFA	CAPTIVEAIRE	300	0.500	1310	TEAO-ECM	0.250	0.0940	1	115	2.9		55	6.4
EF-8	FNET42845	1	SEAFOOD	ENERGY MANAGEMENT SYSTEM	DR30HFA	CAPTIVEAIRE	800	0.500	1504	TEAO-ECM	0.333	0.185	1	115	4.3		63	10.9
EF-9	FNET42845	1	ACCOUNTING	THERMOSTAT	CFA 200CA	CAPTIVEAIRE	75	0.500	573	GENERAL	0.170	0.073	1	115	1.8		20	--
EF-10	K-00067365	1	GAMING	TIME CLOCK BY M.C.	DUB5HFA	CAPTIVEAIRE	1825	0.8	1320	TEAO-ECM	0.75	0.39	1	115	8.9		94	11.8
EF-11	FNET42845	1	EXISTING RESTROOMS	ENERGY MANAGEMENT SYSTEM	DR12HFA	CAPTIVEAIRE	300	0.500	1310	TEAO-ECM	0.250	0.0940	1	115	2.9		55	6.4
EF-12	FNET42845	1	WEST ELECTRICAL LARGE	THERMOSTAT (85°F)	DR30HFA	CAPTIVEAIRE	700	0.25	1222	TEAO-ECM	0.333	0.093	1	115	4.3		64	7.2
EF-13	FNET42845	1	WEST ELECTRICAL SMALL	THERMOSTAT (85°F)	DR12HFA	CAPTIVEAIRE	300	0.500	1310	TEAO-ECM	0.250	0.0940	1	115	2.9		55	6.4

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1A K-00067365	YES						
2	EF-1B K-00067365	YES						
3	EF-2 FNET42845		YES					
4	EF-3 FNET42845		YES					
5	EF-4 K-00067365	YES						
6	EF-5 K-00067365	YES						
7	EF-6, 12 FNET42845		YES					
8	5F-1 FNET42845						YES	
9	EF-7, 13 FNET42845		YES					
10	EF-8 FNET42845		YES					
11	EF-9 FNET42845		YES					
12	EF-10 FNET42845		YES					

MAU CURB ASSEMBLY: OWNER PROVIDED, M.C. INSTALLED

NO	ON FAN	WEIGHT	ITEM	SIZE
8	MAU-1	90 LBS	CURB	31.000" W X 79.500" L X 20.000" H INSULATED.
	MAU-1		RAIL	4.000" W X 4.000" L X 36.000" H.

HMI SCHEDULE

UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN 8	HMI #1 - UNIT HMI #1	MOUNTED IN UNIT	NOT AVERAGED	55

CURB ASSEMBLIES
MAU CURB: OWNER PROVIDED, M.C. INSTALLED
EXHAUST FAN CURB: M.C. PROVIDED / INSTALLED

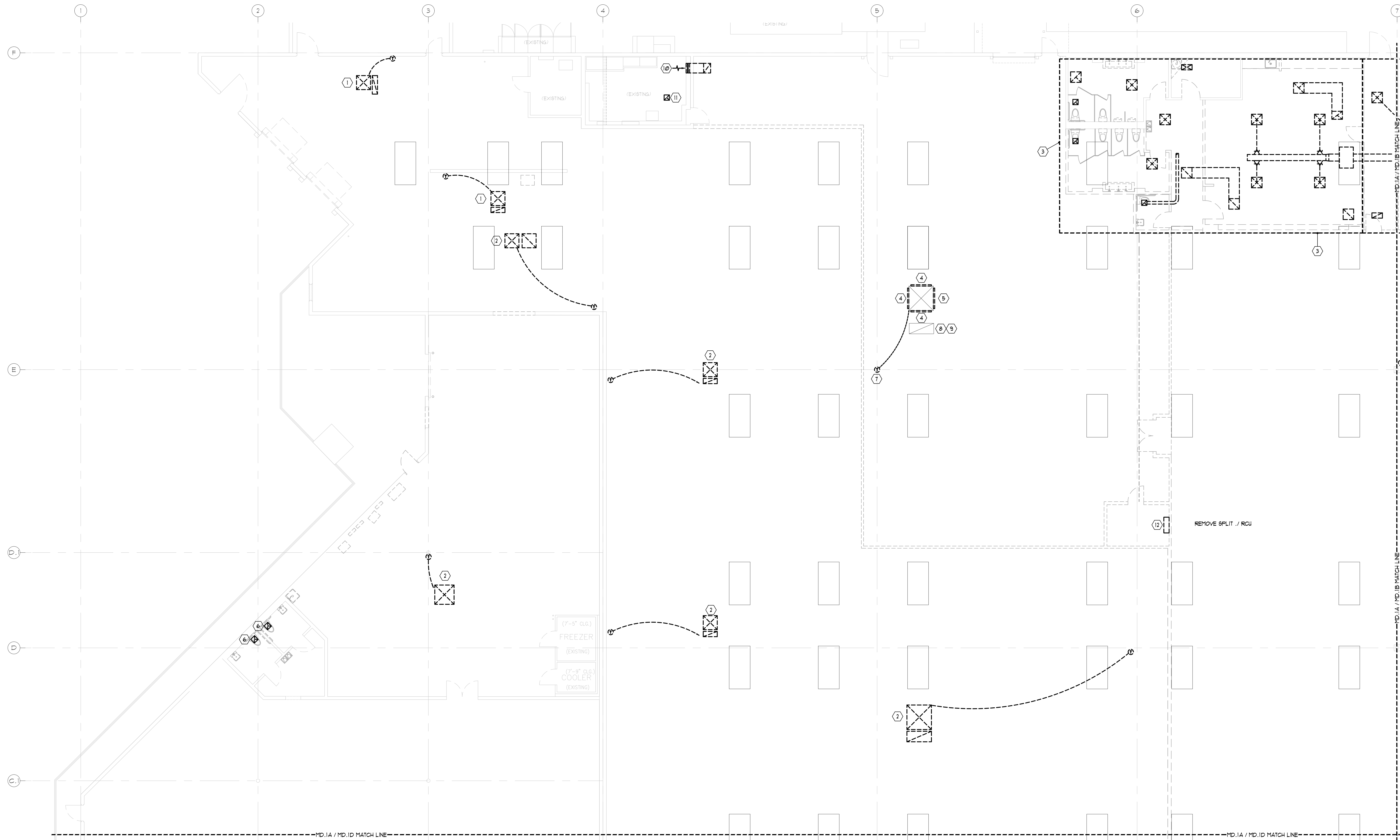
NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1A K-00067365	40 LBS	CURB	23.000" W X 23.000" L X 26.000" H VENTED.
2	# 2	EF-1B K-00067365	40 LBS	CURB	23.000" W X 23.000" L X 26.000" H VENTED.
3	# 3	EF-2 FNET42845	34 LBS	CURB	19.500" W X 19.500" L X 26.000" H.
4	# 4	EF-3 FNET42845	34 LBS	CURB	19.500" W X 19.500" L X 26.000" H.
5	# 5	EF-4 K-00067365	40 LBS	CURB	23.000" W X 23.000" L X 26.000" H VENTED.
6	# 6	EF-5 K-00067365	40 LBS	CURB	23.000" W X 23.000" L X 26.000" H VENTED.
7	# 7	EF-6, 12 FNET42845	34 LBS	CURB	19.500" W X 19.500" L X 26.000" H.
8	# 8	MAU-1	90 LBS	CURB	31.000" W X 79.500" L X 20.000" H INSULATED.
	# 8			RAIL	4.000" W X 4.000" L X 36.000" H.
9	# 9	EF-7, 13 FNET42845	31 LBS	CURB	17.500" W X 17.500" L X 26.000" H.
10	# 10	EF-8 FNET42845	34 LBS	CURB	19.500" W X 19.500" L X 26.000" H.
12	# 12	EF-10 K-00067365	40 LBS	CURB	23.000" W X 23.000" L X 26.000" H VENTED.
13	# 13	EF-11 FNET42845	31 LBS	CURB	17.500" W X 17.500" L X 26.000" H.

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUH	OUTPUT BTUH	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
8	MAU-1 FNET42845	136233	125334	50°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

MUA FAN INFORMATION - JOB#6755280
MUA FAN INFORMATION - OWNER PROVIDED, MC INSTALLED

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	EVAP FLOW RATE (GAL/H)	EVAP COOLER ENTERING DB TEMP	EVAP COOLER ENTERING WB TEMP	EVAP COOLER LEAVING DB TEMP	EVAP COOLER LEAVING WB TEMP	WEIGHT (LBS)	SONES
8	MAU-1 FNET42845	1	A2-D-250-200	200F-2-MOD	A2-D-250	2000	2525	0.750	1284	ODP/PREMIUM	1.500	1.0560	3	208	6.6	8.3A	15A	3.63	108.0°F	66.0°F	85.0°F	66.0°F	964	10.7



MD.1A KEYED NOTES:

- ① REMOVE RTU DROPS / UNIT CONTROLS. SEE M1.2A.
- ② REMOVE STAT / RTU DROPS AS REQUIRED TO ACCOMMODATE A NEW RTU BEING INSTALLED UTILIZING THE EXISTING OPENING. SEE M1.1A FOR NEW CONNECTIONS.
- ③ REMOVE ALL AIR DEVICES AND ASSOCIATED DUCT AS-BUILTS ARE INCOMPLETE. SEE M1.2 FOR ROOF WORK.
- ④ REMOVE SIDEWALL PATCH OPENING.
- ⑤ REMOVE SIDEWALL. SEE M1.1A FOR NEW CONNECTIONS.
- ⑥ REMOVE EXHAUST GRILLE. SEE M1.1A.
- ⑦ REMOVE STAT. OWNER TO PROVIDE A NEW STAT FOR INSTALLATION BY CONTROLS CONTRACTOR. SEE M1.1A.
- ⑧ REMOVE RETURN GRILLE. SEE M1.1A FOR NEW CONNECTIONS.
- ⑨ REMOVE DUCT-MOUNTED SMOKE DETECTOR. SEE M1.1A FOR NEW DSD.
- ⑩ REMOVE TRANSFER FAN / ASSOCIATED DUCT.
- ⑪ REMOVE DUCT THROUGH ROOF. SEE M1.2A.
- ⑫ REMOVE AC UNIT. REMOVE ASSOCIATED CONDENSER FROM ROOF.

GENERAL NOTES:

- ① GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
- ② CONTRACTOR SHALL REMOVE ALL UNUSED DUCT / EQUIPMENT FROM PROJECT.

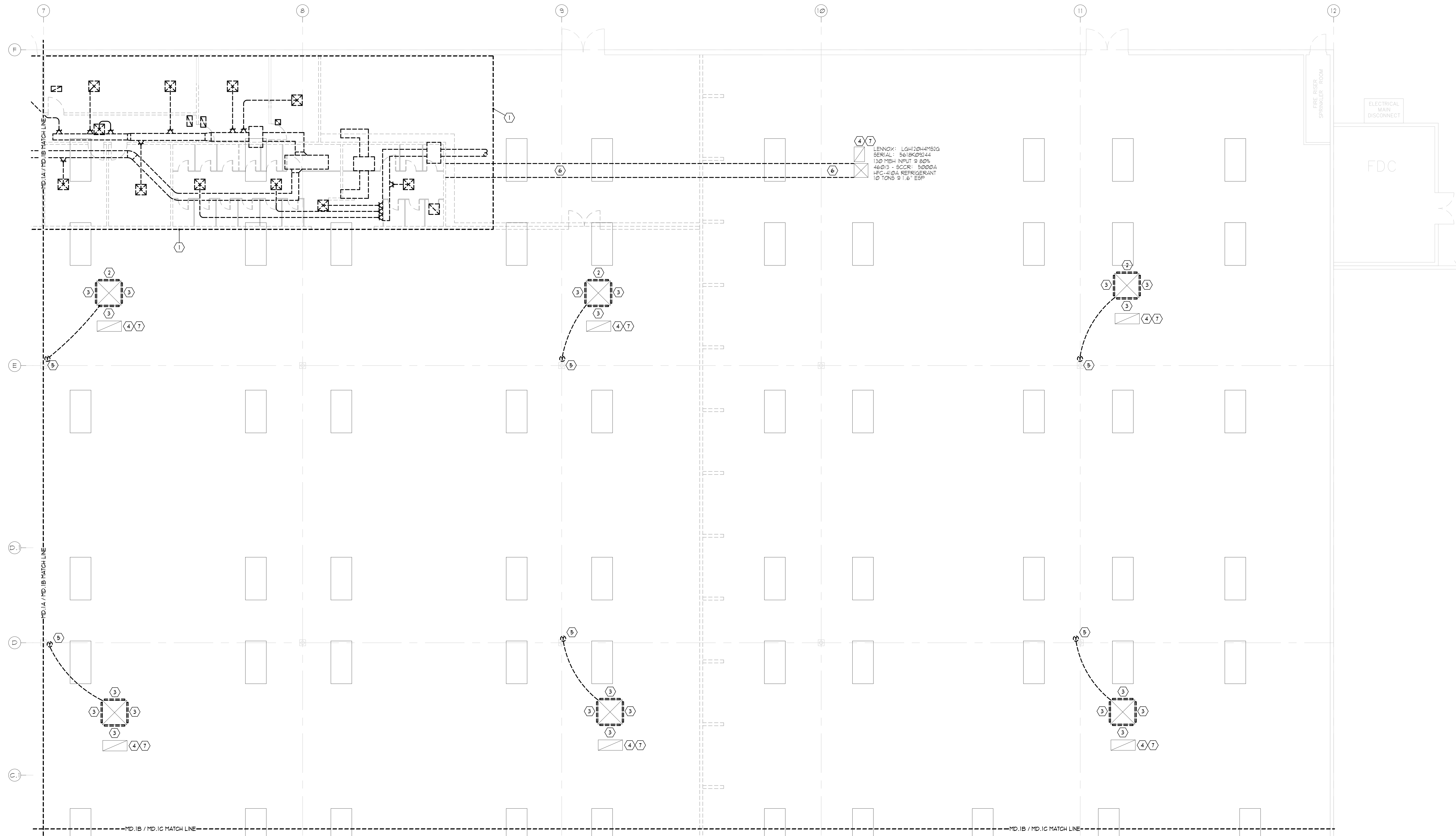
① MECHANICAL DEMO PLAN - "A"
 MD.1A SCALE: 1/8" = 1' - 0"
 0' 4' 8' 12' 16'



PRESCOTT MUIR ARCHITECT • 171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101 • TEL: 801.521.9111 FAX: 801.521.9158

SHEET NO.: MD.1A	DATE: 11.22.24	DRWN BY: BNS	SMITH'S FOOD AND DRUG STORE #303 560 N STEPHANIE ST HENDERSON, NV	MECHANICAL ENGINEERS PVE INC. 801.869.3158
	BD SET	PVE PROJECT NO.: 2400147		

THIS DOCUMENT IS PRELIMINARY AND SHALL REMAIN THE PROPERTY OF PVE INC. ARCHITECT. NO USE OR REPRODUCTION OF THIS DOCUMENT SHALL BE PERMITTED IN ANY MANNER WITHOUT THE WRITING OF PVE INC. OR AN APPROPRIATE COMPANY REPRESENTATIVE. COPYRIGHT © 2024



MD.1B KEYED NOTES:

- ① REMOVE ALL AIR DEVICES AND ASSOCIATED DUCT. AS-BUILTS ARE INCOMPLETE. SEE M1.2 FOR ROOF WORK.
- ② REMOVE SIDEWALL. PATCH OPENING.
- ③ REMOVE RETURN GRILLE. SEE M1.1B FOR NEW CONNECTIONS.
- ④ REMOVE RETURN GRILLE. SEE M1.1A FOR NEW CONNECTIONS.
- ⑤ REMOVE STAT. OWNER TO PROVIDE A NEW STAT FOR INSTALLATION BY CONTROLS CONTRACTOR. SEE M1.1A.
- ⑥ REMOVE ABANDONED DUCT. CAP AT DROP FROM RTU.
- ⑦ REMOVE DUCT-MOUNTED SMOKE DETECTOR. SEE M1.1B FOR NEW DSD.

GENERAL NOTES:

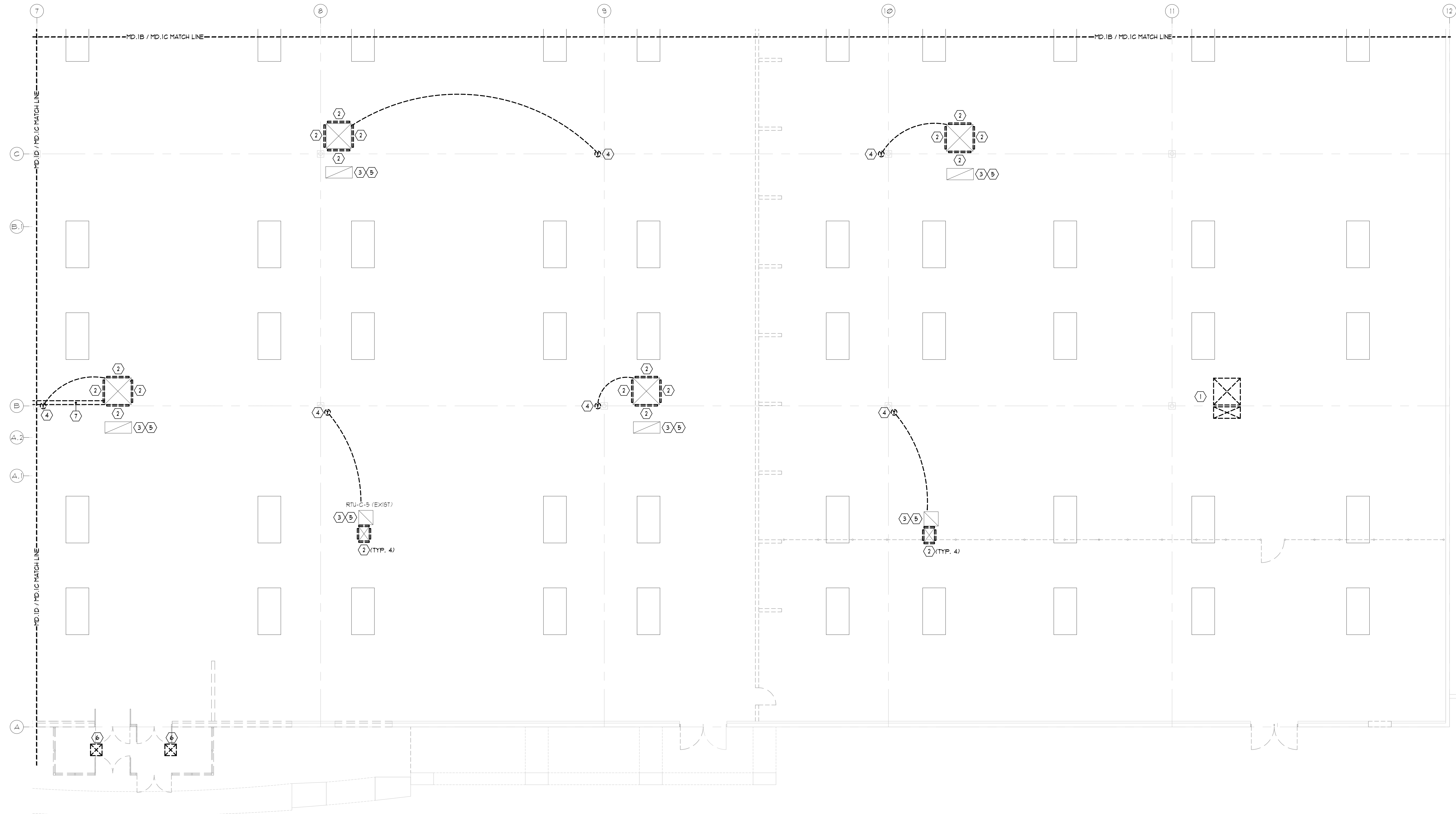
- ① GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
- ② CONTRACTOR SHALL REMOVE ALL UNUSED DUCT / EQUIPMENT FROM PROJECT.

① MECHANICAL DEMO PLAN - "B"
 SCALE: 1/8" = 1' - 0"
 0' 4' 8' 12' 16'



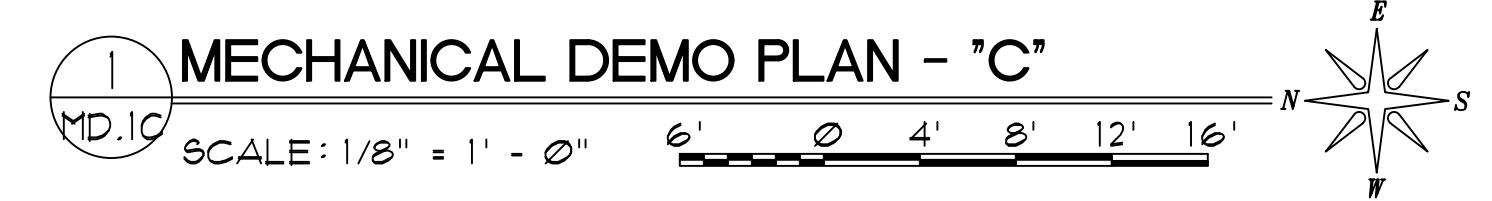
PRESCOTT MUIR ARCHITECT • SALT LAKE CITY, UTAH 84101 • TEL: 801.521.9111 FAX: 801.521.9158

SHEET NO: MD.1B	DATE: 11.22.24	DRWN BY: BMS	SMITH'S FOOD AND DRUG STORE #303 560 N STEPHANIE ST HENDERSON, NV
	BID SET	PVE PROJECT NO: 24004.04	
<small>THIS DOCUMENT IS THE PROPERTY OF PRESCOTT MUIR ARCHITECT. NO USE OR REPRODUCTION OF THIS DOCUMENT IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF PRESCOTT MUIR ARCHITECT. APPROXIMATE COAST FOOTING © 2024</small>			
MECHANICAL DEMO PLAN - "B"			



- MD.1C KEYED NOTES:**
- ① REMOVE RTU DROPS. REMOVE / RELOCATE RTU TO NEW PICK-UP AREA. SEE M.I.D. M.I.2D.
 - ② REMOVE SIDEWALL. SEE M.I.C FOR NEW CONNECTIONS.
 - ③ REMOVE RETURN GRILLE. SEE M.I.A FOR NEW CONNECTIONS.
 - ④ REMOVE STAT. OWNER TO PROVIDE A NEW STAT FOR INSTALLATION BY CONTROLS CONTRACTOR. SEE M.I.A.
 - ⑤ REMOVE DUCT-MOUNTED SMOKE DETECTOR. SEE M.I.C FOR NEW DSD.
 - ⑥ REMOVE UNIT HEATER.
 - ⑦ REMOVE ABANDONED DUCT. CAP AT MAIN.

- GENERAL NOTES:**
- ① GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
 - ② CONTRACTOR SHALL REMOVE ALL UNUSED DUCT / EQUIPMENT FROM PROJECT.



PRESCOTT MUIR ARCHITECT • 171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101 • TEL: 801.521.9111 FAX: 801.521.9158

SHEET NO: MD.1C	DATE: 11.22.24	DRWN BY: BMS	SMITH'S FOOD AND DRUG STORE #303 560 N STEPHANIE ST HENDERSON, NV	MECHANICAL ENGINEERS PVE INC. 801.869.3158	MECHANICAL DEMO PLAN - "C"
	BD SET	PVE PROJECT NO: 24034.04			

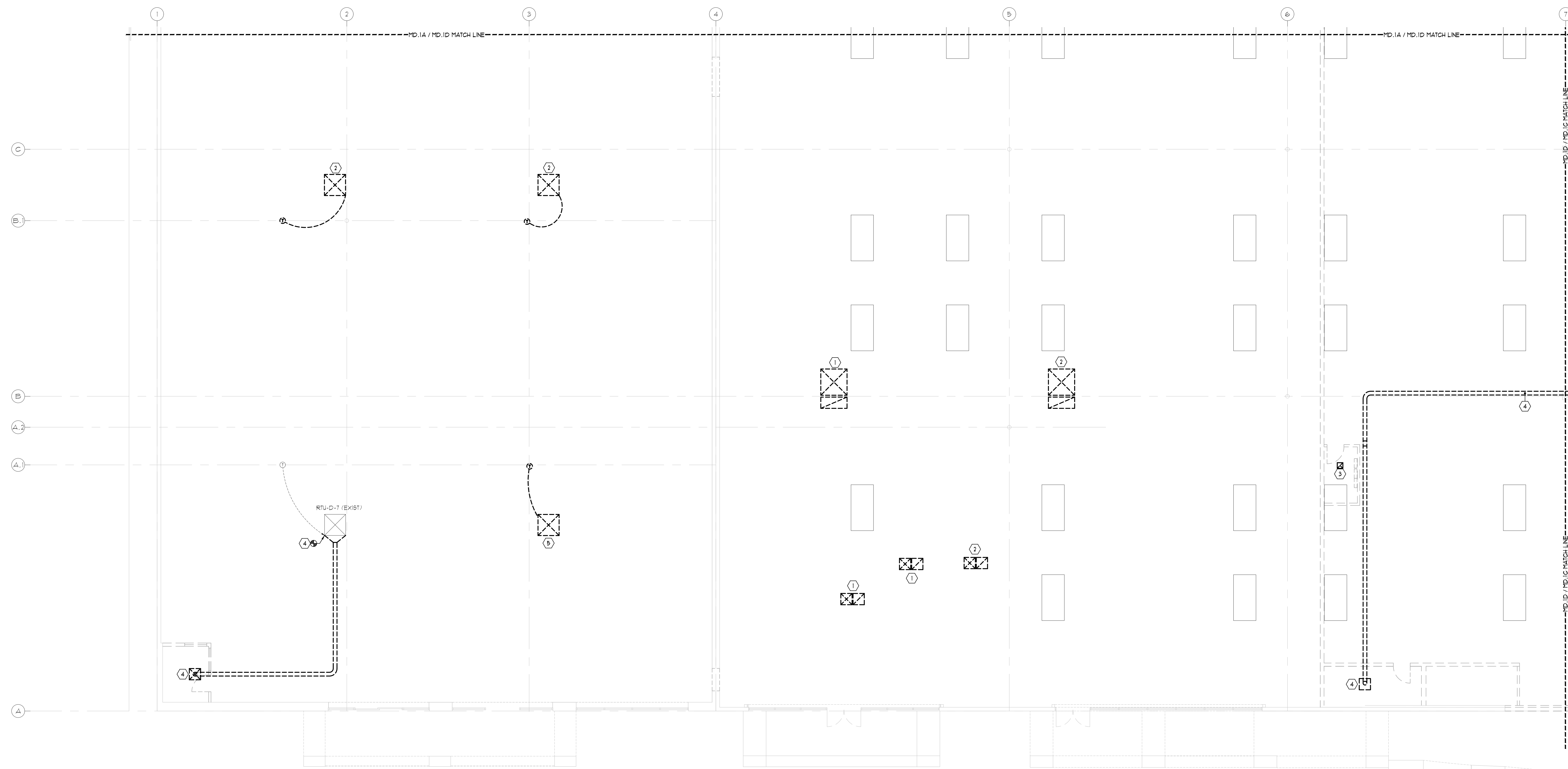
THIS DOCUMENT IS PRELIMINARY AND SHALL REMAIN THE PROPERTY OF PVE INC. ARCHITECT. NO USE OR REPRODUCTION OF THIS DOCUMENT SHALL BE PERMITTED IN ANY MANNER WITHOUT THE WRITING OF PRESCOTT MUIR ARCHITECT. APPROPRIATE CANNOT BE OBTAINED FROM PVE INC.

MD.1D KEYED NOTES:

- ① REMOVE RTU DROPS / UNIT CONTROLS. SEE M.2D.
- ② REMOVE STAT / RTU DROPS AS REQUIRED TO ACCOMMODATE A NEW RTU BEING INSTALLED UTILIZING THE EXISTING OPENING. SEE M.1A FOR NEW CONNECTIONS.
- ③ REMOVE EXHAUST THROUGH ROOF AND ASSOCIATED CONTROLS. REMOVE FAN ON ROOF AND CAP CURB. SEE M.2D.
- ④ REMOVE AIR DEVICE / ABANDONED SECTIONS OF DUCT. CAP AT MAIN.
- ⑤ REMOVE RTU DROPS AS REQUIRED TO ACCOMMODATE A RELOCATED RTU BEING INSTALLED UTILIZING THE EXISTING OPENING. SEE M.1A FOR NEW CONNECTIONS. MD.1C FOR RTU BEING REMOVED / RELOCATED.

GENERAL NOTES:

- ① GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
- ② CONTRACTOR SHALL REMOVE ALL UNUSED DUCT / EQUIPMENT FROM PROJECT.



① MECHANICAL DEMO PLAN - "D"
 SCALE: 1/8" = 1' - 0"
 6' 0" 4' 0" 2' 0" 12' 0" 16' 0"



PRESCOTT MUIR ARCHITECT • 171 WEST PIERPORT AVE. • SALT LAKE CITY, UTAH 84101 • TEL: 801.521.9111 FAX: 801.521.9158

SHEET NO: MD.1D	DATE: 11.22.24	DRWN BY: BNS	SMITH'S FOOD AND DRUG STORE #303 560 N STEPHANIE ST HENDERSON, NV
	BID SET	PVE PROJECT NO: 24034.04	
THIS DOCUMENT IS PRELIMINARY AND SHALL REMAIN THE PROPERTY OF PRESCOTT MUIR ARCHITECT. NO USE OR REUSE SHALL BE PERMITTED IN WRITING BY PRESCOTT MUIR ARCHITECT WITHOUT THE APPROPRIATE COMPLETION OF THE PROJECT. © 2024			
MECHANICAL ENGINEERS PVE INC. 801.359.3158			

MECHANICAL DEMO PLAN - "D"

AIR DEVICE SCHEDULE										
PLAN CODE	SIZE	NECK	DUTY	INSTALL TYPE	MAX CFM	MAX N.C.	150-100-50	MANUFACTURER	MODEL	COMMENTS
1	12" X 12"	10" X 10"	EXHAUST / RETURN	GYP.	625	29	N/A	PRICE	PDR	HINGED, REMOVABLE PERFORATED FACE PLATE FOR ACCESS TO RADIAL BALANCING DAMPER.
2	20" X 20"	8"Ø	SQUARE SUPPLY	GYP.	314	24	4'-5'-5"	PRICE	SPD	R-6 INSULATED BACK PAN. REMOVABLE FACE FOR ACCESS TO FACTORY RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
3	12" X 24"	10" X 22"	TRANSFER / RETURN	LAY-IN	917	20		PRICE	PDR	PROVIDE O.B.D. AND TRANSITIONS AS REQUIRED.
4	24" X 24"	12"Ø	SQUARE SUPPLY	LAY-IN	707	27	VERTICAL PROJECTION	PRICE	ASCSA	ALUMINUM CONSTRUCTION. ADJUSTABLE PATTERN DEFLECTORS, SET TO VERTICAL PROJECTION. REMOVABLE CORE FOR ACCESS TO RADIAL BALANCING DAMPER.
5	24" X 24"	8"Ø	SQUARE SUPPLY	LAY-IN	349	26	4'-6'-10"	PRICE	SCD	REMOVABLE CORE FOR ACCESS TO RADIAL BALANCING DAMPER.
6	24" X 24"	N/A	EGG CRATE RETURN	EXPOSED DUCT	3000	26	N/A	TITUS	50F	1" X 1" X 1" OPEN GRID RETURN. PROVIDE BALANCING DAMPER. REMOVE EXISTING RETURN. EXTEND DUCT AS REQUIRED TO ACCOMMODATE NEW GRILLE. SEE HSD-1, SHEET MS.1.
7	48" X 30"	N/A	EGG CRATE RETURN	EXPOSED DUCT	7680	27		TITUS	50F	
8	20" X 20"	10"Ø	SQUARE SUPPLY	GYP.	436	24	4'-6'-9"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
9	10" X 10"	N/A	SIDEWALL	GYP.	480	25	11'-14'-20"	PRICE	520	DUAL DEFLECTION. HORIZONTAL VANES W/ 45 DEGREE DEFLECTION. PROVIDE W/ O.B.D. FACTORY PRIMED FOR PAINT BY G.C. TO MATCH WALL.
10	24" X 12"	N/A	EGG CRATE RETURN	EXPOSED DUCT	1092	13		TITUS	50F	1" X 1" X 1" OPEN GRID RETURN. PROVIDE BALANCING DAMPER. REMOVE EXISTING RETURN. EXTEND DUCT AS REQUIRED TO ACCOMMODATE NEW GRILLE. SEE HSD-1, SHEET MS.1.
11	24" X 36"	N/A	EGG CRATE RETURN	EXPOSED DUCT	4528	26	N/A	TITUS	50F	
12	24" X 24"	10"Ø	SQUARE SUPPLY	LAY-IN	545	30	5'-8'-12"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
13	24" X 24"	8"Ø	SQUARE SUPPLY	LAY-IN	349	27	4'-6'-10"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
14	24" X 24"	12"Ø	SQUARE SUPPLY	LAY-IN	707	29	6'-9'-14"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
15	24" X 24"	14"Ø	SQUARE SUPPLY	LAY-IN	855	27	6'-10'-15"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
16	24" X 24"	22" X 22"	PERF. RETURN / TRANS.	GYP.	2,353	26	N/A	PRICE	PDR	PROVIDE W/ OBD WHERE INDICATED
17	24" X 48"	22" X 46"	PERF. RETURN	LAY-IN	5,776	26	N/A	PRICE	80 SERIES	PROVIDE REQUIRED TRANSITIONS AND BALANCING DAMPER.
18	12" X 24"	10" X 22"	TRANSFER / RETURN	GYP.	917	20	N/A	PRICE	PDR	PROVIDE O.B.D. AND TRANSITIONS AS REQUIRED.
19	24" X 24"	14"Ø	SQUARE SUPPLY	GYP.	855	27	6'-10'-15"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
20	24" X 24"	10"Ø	SQUARE SUPPLY	GYP.	545	30	5'-8'-12"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
21	24" X 24"	12"Ø	SQUARE SUPPLY	GYP.	707	29	6'-9'-14"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
22	12" X 12"	6"Ø	SQUARE SUPPLY	GYP.	157	20	4'-7'-10"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
23	24" X 24"	8"Ø	SQUARE SUPPLY	LAY-IN	225 @ 0.1" W.C.	20	10'-7'-5"	PRICE	ACUTHERM	THERMA-FUSER TF-HC
24	24" X 24"	22" X 22"	PERF. RETURN / EXHAUST	LAY-IN	2,353	26	N/A	PRICE	PDR	PROVIDE REQUIRED TRANSITIONS AND BALANCING DAMPER.
25	24" X 48"	22" X 46"	PERF. RETURN	GYP.	5,776	26	N/A	PRICE	80 SERIES	PROVIDE REQUIRED TRANSITIONS AND BALANCING DAMPER.
26	36" X 5"	N/A	SIDEWALL	GYP.	640	19	11'-17'-23"	PRICE	520	DUAL DEFLECTION. LONG-SIDE PARALLEL TO FLOOR. 45 DEGREE DEFLECTION. PROVIDE W/ O.B.D. FACTORY PRIMED FOR PAINT BY G.C. TO MATCH WALL.
27	24" X 24"	18" X 18"	SQUARE SUPPLY	LAY-IN	1,350	34	19'-24'-34"	PRICE	SMD	STEEL CONSTRUCTION. PROVIDE TRANSITIONS AND O.B.D.
28	24" X 24"	6"Ø	SQUARE SUPPLY	LAY-IN	157		2'-4'-6"	PRICE	SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER. FACTORY BLOCK-OFFS WHERE INDICATED
29	44" X 44"	N/A	EGG CRATE RETURN	EXPOSED DUCT	10392	27	N/A	TITUS	50F	1" X 1" X 1" OPEN GRID RETURN. PROVIDE BALANCING DAMPER. REMOVE EXISTING RETURN. EXTEND DUCT AS REQUIRED TO ACCOMMODATE NEW GRILLE. SEE HSD-1, SHEET MS.1.
30	42" X 15"	N/A	SIDEWALL	EXPOSED DUCT	3,063	29	87"-106'-150"	PRICE	HCD	HIGH CAPACITY DRUM LOUVER. ROTATEABLE DRUM FOR 60 DEGREE ADJUSTMENT. SPLIT BLADE FACE FOR INDIVIDUALLY ADJUSTABLE VANES. ADJUST TO AVOID DISRUPTION OF SUSPENDED SIGNAGE. FACTORY BALANCING DAMPER.
31	36" X 5"	N/A	SIDEWALL	EXPOSED DUCT	855	28	14'-19'-26"	PRICE	520	DUAL DEFLECTION. LONG-SIDE PARALLEL TO FLOOR. 45 DEGREE DEFLECTION. PROVIDE W/ O.B.D. FACTORY PRIMED FOR PAINT BY G.C.
32	36" X 8"	N/A	SIDEWALL	GYP.	1080	21	14'-21'-29"	PRICE	520	DUAL DEFLECTION. LONG-SIDE PARALLEL TO FLOOR. 45 DEGREE DEFLECTION. PROVIDE W/ O.B.D. FACTORY PRIMED FOR PAINT BY G.C.
33	31.5"Ø	14"Ø	ROUND PLAQUE SUPPLY	OPEN CEILING	962	31		PRICE	RPD	ADJUSTABLE CORE. PROVIDE O.B.D. SET AT SAME ELEVATION AS LIGHTS. FACTORY PRIMED FOR PAINT BY G.C.
34	22.5"Ø	10"Ø	ROUND PLAQUE SUPPLY	OPEN CEILING	491	19		PRICE	RPD	SET ADJUSTABLE CORE TO PROJECT VERTICALLY. PROVIDE O.B.D. SET AT SAME ELEVATION AS LIGHTS. FACTORY PRIMED FOR PAINT BY G.C.

AIR BALANCE SCHEDULE - SM303							
EQUIPMENT	STATUS	AREA SERVED	SUPPLY CFM	RETURN CFM	OUTSIDE CFM	EXHAUST CFM	Comments
RTU-A-1	EXISTING	SALES - "A"	8,000	7,350	650		RE-BALANCE EXISTING RTU AS NOTED
RTU-A-2	NEW - BY OWNER	BAKERY	1,200	946	254		
RTU-A-3	NEW - BY OWNER	SALES - "A"	8,000	7,350	650		
RTU-A-4	NEW - BY OWNER	SEAFOOD	1,200	1,000	200		
RTU-A-5	NEW - BY OWNER	DOCK	5,000	4,490	510		
RTU-A-6	EXISTING	RESTROOMS	1,200	1,080	120		RE-BALANCE EXISTING RTU AS NOTED
RTU-A-7	NEW - BY OWNER	CONFERENCE	2,000	1,700	300		DEMAND CONTROL VENTILATION. CO2 SENSOR BY OWNER.
RTU-A-8	NEW - BY OWNER	BREAKROOM	2,000	1,687	313		DEMAND CONTROL VENTILATION. CO2 SENSOR BY OWNER.
RTU-A-9	NEW - BY OWNER	DOCK	2,400	2,160	240		
RTU-A-10	NEW - BY OWNER	DOCK	3,000	2,740	260		
RTU-A-11	NEW - BY OWNER	DOCK	4,000	3,740	260		
RTU-B-1	EXISTING	SALES - "B"	8,000	7,285	715		
RTU-B-2	EXISTING	SALES - "B"	8,000	7,240	760		
RTU-B-3	EXISTING	SALES - "B"	8,000	7,380	620		
RTU-B-4	EXISTING	SALES - "B"	8,000	7,345	655		RE-BALANCE EXISTING RTU AS NOTED
RTU-B-5	EXISTING	SALES - "B"	8,000	7,330	670		
RTU-B-6	EXISTING	SALES - "B"	8,000	7,390	610		
RTU-B-7	EXISTING	BACKROOM	4,000	3,255	745		
RTU-B-8	EXISTING	BACKROOM	4,000	3,210	790		
RTU-C-1	EXISTING	SALES - "C"	10,000	9,180	820		
RTU-C-2	EXISTING	SALES - "C"	8,000	7,430	570		
RTU-C-3	EXISTING	SALES - "C"	8,000	7,360	640		
RTU-C-4	EXISTING	SALES - "C"	8,000	7,090	910		RE-BALANCE EXISTING RTU AS NOTED
RTU-C-5	EXISTING	GAMING	4,000	3,500	500		
RTU-C-6	EXISTING	CUSTOMER SERVICE	4,000	3,870	130		
RTU-C-7	NEW - BY OWNER	PHARMACY	2,400	1,925	475		
RTU-C-8	NEW - BY OWNER	VESTIBULE	3,000	2,795	205		
RTU-D-1	NEW - BY OWNER	OFFICES	3,400	3,185	260		
RTU-D-2	NEW - BY OWNER	SALES - "D"	4,000	3,000	1,000		RE-BALANCE EXISTING RTU AS NOTED
RTU-D-3	RELOCATED	PICK-UP	8,000	7,425	575		REMOVE FROM SECTION "C" AND BALANCE AS NOTED
RTU-D-4	NEW - BY OWNER	SEATING / SALES	4,000	3,270	740		DEMAND CONTROL VENTILATION. CO2 SENSOR BY OWNER.
RTU-D-5	NEW - BY OWNER	DELI	4,000	3,450	550		
EF-1A		DELI			-1,400		INTERLOCKED WITH HEAT SENSOR / MAU-1
EF-1B		DELI			-1,400		INTERLOCKED WITH HEAT SENSOR / MAU-1
EF-2		FRONT RESTROOMS			-800		OPERATES DURING HOURS OF OPERATION
EF-3		BACK RESTROOMS			-1,100		OPERATES DURING HOURS OF OPERATION
EF-4		BAKERY OVEN			-900		EQUIPMENT INTERLOCK
EF-5		BAKERY OVEN			-900		EQUIPMENT INTERLOCK
D176B-208		PAN WASHER			-400		INTEGRAL FAN. SEE DETAIL
EF-6		ELECTRICAL (DOCK)			-700		THERMOSTAT ACTIVATED
EF-7		SEATING RESTROOMS			-300		OPERATES DURING HOURS OF OPERATION
EF-8		SEAFOOD			-800		OPERATES DURING HOURS OF OPERATION
EF-9		ACCOUNTING			-75		EXCLUDED FROM TOTAL AS EXHAUST TERMINATES INSIDE BUILDING
EF-10		GAMING			-1,825		OPERATES DURING HOURS OF OPERATION
EF-11		EXISTING RESTROOMS			-300		OPERATES DURING HOURS OF OPERATION
EF-12		WEST ELECTRICAL (LARGE)			-700		THERMOSTAT ACTIVATED
EF-13		WEST ELECTRICAL (LARGE)			-300		
MAU-1	NEW - BY OWNER	DELI HOODS 1A, 1B	2525		2525		
			SUPPLY CFM	RETURN CFM	OUTSIDE CFM	EXHAUST CFM	COORDINATE SYSTEM BALANCING WITH OWNER'S AGENT PER SPEC 230593
			167,325	148,158	19,222	-11,825	
					19,222		
			BUILDING PRESSURIZATION WITHOUT COOKING EXHAUST		13,097	7,397	BUILDING PRESSURIZATION - SEE M1.1 / M1.2 FOR RELIEF
					6400	997	BAROMETRIC RELIEF

MINI-SPLIT SYSTEM SCHEDULE - M.C. PROVIDED, M.C. INSTALLED																										
INDOOR UNIT											OUTDOOR UNIT															
PLAN MARK	MFR	MODEL	AREA SERVED	MOUNT	CFM	CONDENSATE DRAIN	DIMENSIONS			WEIGHT (LBS)	PLAN MARK	SEER2	HSPF2	MODEL	COOLING (BTUH)	HEATING (BTUH)	REF.	DIMENSIONS			WEIGHT (LBS)	VOLT	PH	MCA	MOCF	NOTES
							WIDTH	HEIGHT	DEPTH									WIDTH	HEIGHT	DEPTH						
FC-1		AC04BNADCH	ECR	SUSPENDED	1289	1" ID	33 1/16"	11 5/16"	33 1/16"	50	CU-1	17.8	8.6	AC048BKADCH	48000	54000		37"	47 11/16"	13"	200				1.2,3,4,5,6,7,8	
FC-2	SAMSUNG	AC036BNDCH	ELECT. CLOSET	WALL	830	11/16" OD	50 3/8"	9 15/16"	13 9/16"	42	CU-2	19.2	8.5	AC036BKADCH	36000	40000	R410A	37"	47 11/16"	13"	190	208	1	32.8	40	1.2,3,4,6,7,8
FC-3		AC018BNADCH	FLORAL STORAGE	WALL	615	11/16" OD	41 9/16"	8 7/16"	11 3/4"	26	CU-3	20.1	8.2	AC018BKADCH	18000	20000		34 5/8"	31 7/16"	12 1/4"	120			20.1	25	1.2,3,4,6,7,8

NOTES:

- AVOID PLACING INDOOR UNIT OVER ELECTRICAL EQUIPMENT
- ROUTE CONDENSATE TO DRAIN PROVIDED BY P.C.
- OUTDOOR UNIT POWERS INDOOR UNIT (14 AWG X 3). COORDINATE WITH E.C.
- INSTALL AT SAME ELEVATION AS LIGHTS.
- INTEGRAL CONDENSATE PUMP.
- PROVIDE FRONT / BACK WIND BAFFLES
- PROVIDE WIRED TOUCHSCREEN CONTROLLER.
- LINE SETS SHALL BE INSULATED IN ACCORDANCE WITH I.E.C.C. TABLE C403.12.3.1
- INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE / SHIELDED FROM SOLAR RADIATION.
- SEE DETAIL HSD-11, MS.1 AND ASD-89

LOUVERED PENTHOUSE SCHEDULE											
SYMBOL	LOCATION	APPLICATION	MANUFACTURER	MODEL NO.	AIR FLOW (cfm)	MAXIMUM STATIC PRESSURE	THROAT SIZE W x D (inches)	TIERS HIGH	THROAT AREA (SQ. FT.)	THROAT VELOCITY (FPM)	WEIGHT (lbs)
LPH-1	ROOF	BUILDING RELIEF	PennBarry	PH-4848-4	3,200	0.03" W.G.	48" X 48"	5	14.93	482.2	110
LPH-2	ROOF	BUILDING RELIEF	PennBarry	PH-4848-4	3,200	0.03" W.G.	48" X 48"	5	14.93	482.2	110

ACCESSORIES

- 18" HIGH PREFABRICATED ROOF CURB
- 1/2" MESH GALVANIZED BRD SCREEN
- COUNTER BALANCE BACKDRAFT DAMPER

PRESCOTT MUIR ARCHITECT 171 WEST PIERPONT AVE. SALT LAKE CITY, UTAH 84101 TEL: 801.521.9111 FAX: 801.521.9158

MECHANICAL SCHEDULES
 MECHANICAL ENGINEERS
 PVE INC. 801.969.3168
 SMITH'S FOOD AND DRUG STORE #303 560 N STEPHANIE ST HENDERSON, NV
 DRAWN BY: BMS
 PVE PROJECT NO: 2402414



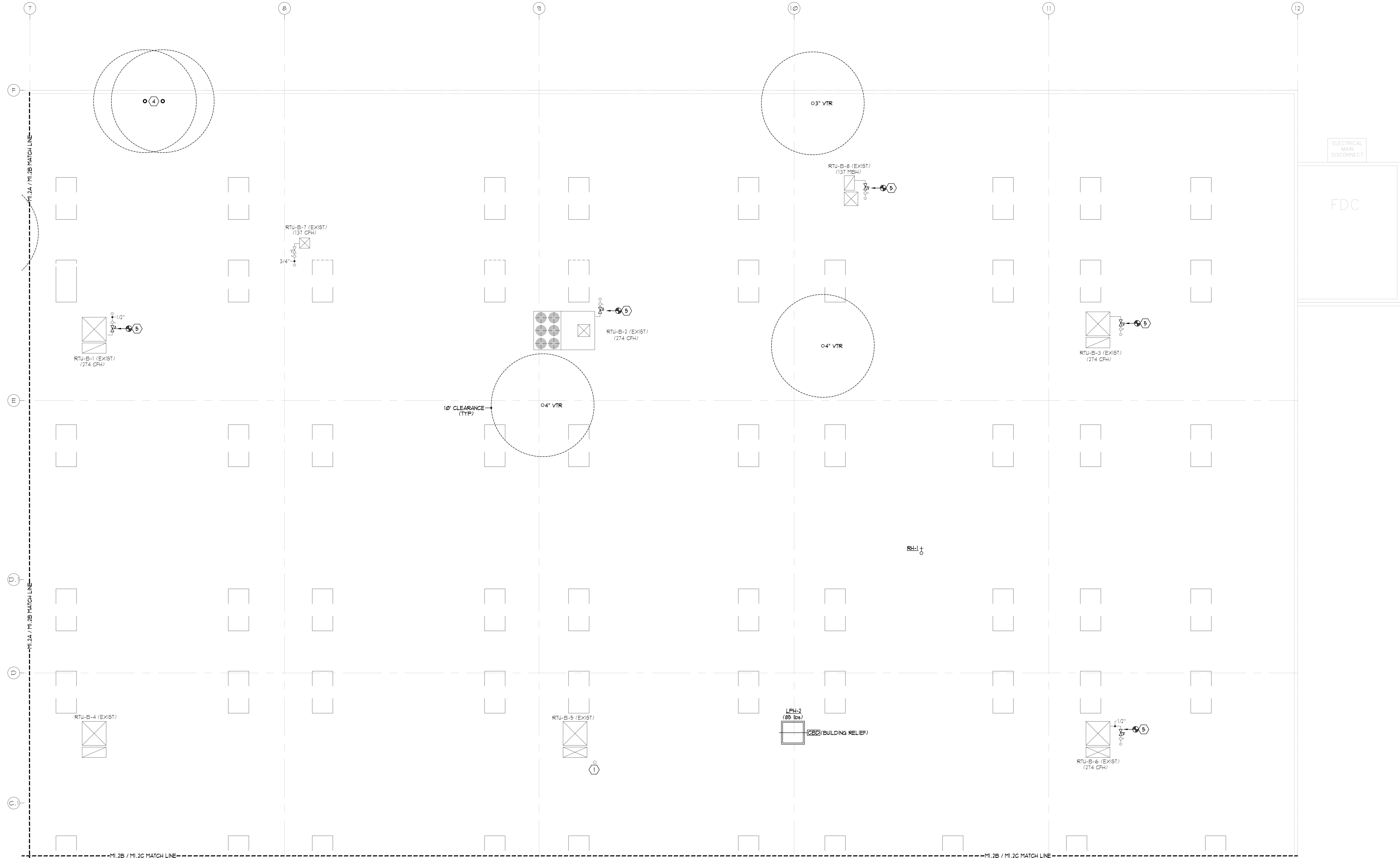
SHEET NO: M6.1

MI.2B KEYED NOTES:

- ① REMOVE ABANDONED PIPING AND CAP.
- ② NOT USED.
- ③ NOT USED.
- ④ TERMINATE 6" WATER HEATER FLUES NO LESS THAN 18" ABOVE ROOF MEMBRANE, 18" FROM PARAPET WALL, AND 10' FROM EXISTING FRESH AIR INTAKE OF RTU.
- ⑤ PROVIDE / INSTALL NEW 5 LB REGULATOR AT EXISTING EQUIPMENT.

GENERAL NOTES:

- ① SEE P2.1B FOR RTU CONDENSATE REMOVAL TRAPPED LINES TO BE PROVIDED WITH PROTECTED VENT.
- ② GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
- ③ GENERAL CONTRACTOR SHALL REMOVE ALL UNUSED / ABANDONED ITEMS FROM PROJECT.



MECHANICAL ROOF PLAN - "B"
 SCALE: 1/8" = 1' - 0"
 6' 4' 8' 12' 16'



PRESCOTT MUIR ARCHITECT • 171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101 • TEL: 801.521.9111 FAX: 801.521.9158

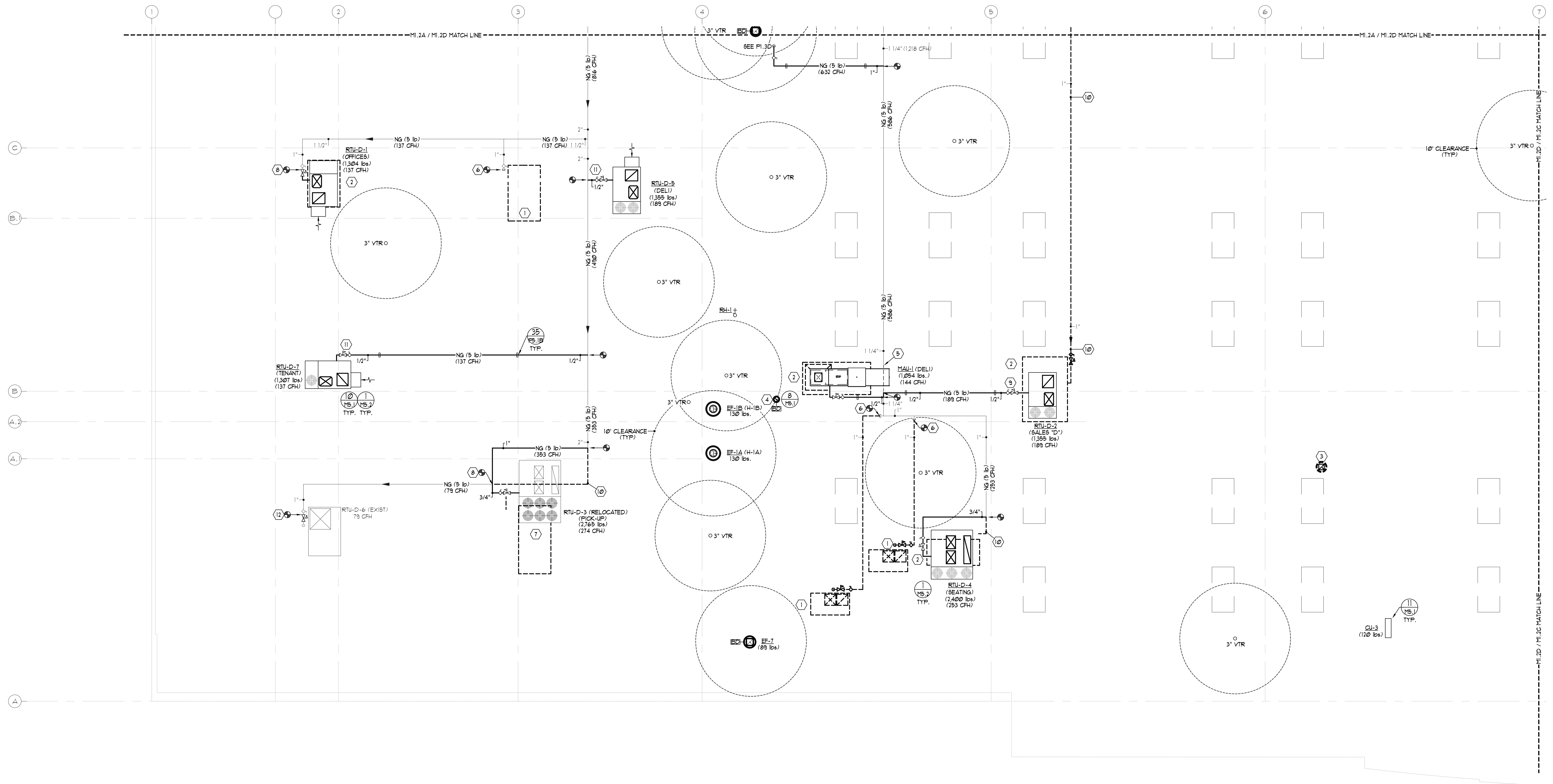
SHEET NO: M1.2B	DATE: 11.22.24	DRAWN BY: BMS	SMITH'S FOOD AND DRUG STORE #303 560 N STEPHANIE ST HENDERSON, NV	MECHANICAL ENGINEERS PVE INC. 801.866.3156
	BD SET	PVE PROJECT NO: 24004.04		

THIS DOCUMENT IS PRELIMINARY AND SHALL REMAIN THE PROPERTY OF PVE INC. ARCHITECT. NO USE OR REPRODUCTION OF THIS DOCUMENT SHALL BE PERMITTED IN ANY MANNER WITHOUT THE WRITING OF PRESCOTT MUIR ARCHITECT. APPROXIMATE COAST APPROXIMATE FOOT 0 2000

- M1.2D KEYED NOTES:**
- 1 REMOVE RTU. CAP CURB.
 - 2 REMOVE RTU AND REQUIRED DUCT DROPS TO ACCOMMODATE NEW EQUIPMENT BEING INSTALLED UTILIZING EXISTING ROOF OPENING.
 - 3 REMOVE EXHAUST FAN. CAP CURB.
 - 4 TERMINATE STAINLESS DUCT FROM BELOW WITH INSECT SCREEN WEATHER PROOF CAP. SEE M1.D.
 - 5 FIELD VERIFY PIPE PLACEMENT / ROUTING. RE-ROUTE AS REQUIRED FOR INSTALLATION OF NEW EQUIPMENT.
 - 6 REMOVE NATURAL GAS CONNECTIONS / INDICATED SECTION(S) OF PIPING AND CAP.

- M1.2D KEYED NOTES:**
- 7 REMOVE RTU AND REQUIRED DUCT DROPS TO ACCOMMODATE RELOCATED EQUIPMENT BEING INSTALLED UTILIZING EXISTING ROOF OPENING. SEE M1.2C FOR RELOCATED RTU.
 - 8 DISCONNECT EXISTING RTU NG FOR UNIT TO BE REMOVED. PROVIDE / INSTALL 5 LB PRESSURE REGULATOR AND ALL FINAL CONNECTIONS TO NEW EQUIPMENT BY OWNER.
 - 9 DISCONNECT EXISTING RTU FOR UNIT TO BE REMOVED. PROVIDE / INSTALL VALVE, 5 LB PRESSURE REGULATOR, AND ALL FINAL CONNECTIONS TO NEW EQUIPMENT BY OWNER.
 - 10 REMOVE ABANDONED NG PIPING.
 - 11 PROVIDE / INSTALL VALVE, 5 LB PRESSURE REGULATOR, AND ALL FINAL CONNECTIONS TO NEW EQUIPMENT BY OWNER.
 - 12 PROVIDE / INSTALL NEW 5 LB REGULATOR AT EXISTING EQUIPMENT.

- GENERAL NOTES:**
- 1 SEE P2.1D FOR RTU CONDENSATE REMOVAL TRAPPED LINES TO BE PROVIDED WITH PROTECTED VENT.
 - 2 GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
 - 3 GENERAL CONTRACTOR SHALL REMOVE ALL UNUSED / ABANDONED ITEMS FROM PROJECT.



M1.2D MECHANICAL ROOF PLAN - "D"
 SCALE: 1/8" = 1' - 0"
 6' 4' 8' 12' 16'

PRESCOTT MUIR ARCHITECT • 171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101 • TEL: 801.521.9111 FAX: 801.521.9158

SMITH'S FOOD AND DRUG STORE #303
 560 N STEPHANIE ST
 HENDERSON, NV

MECHANICAL ROOF PLAN - "D"

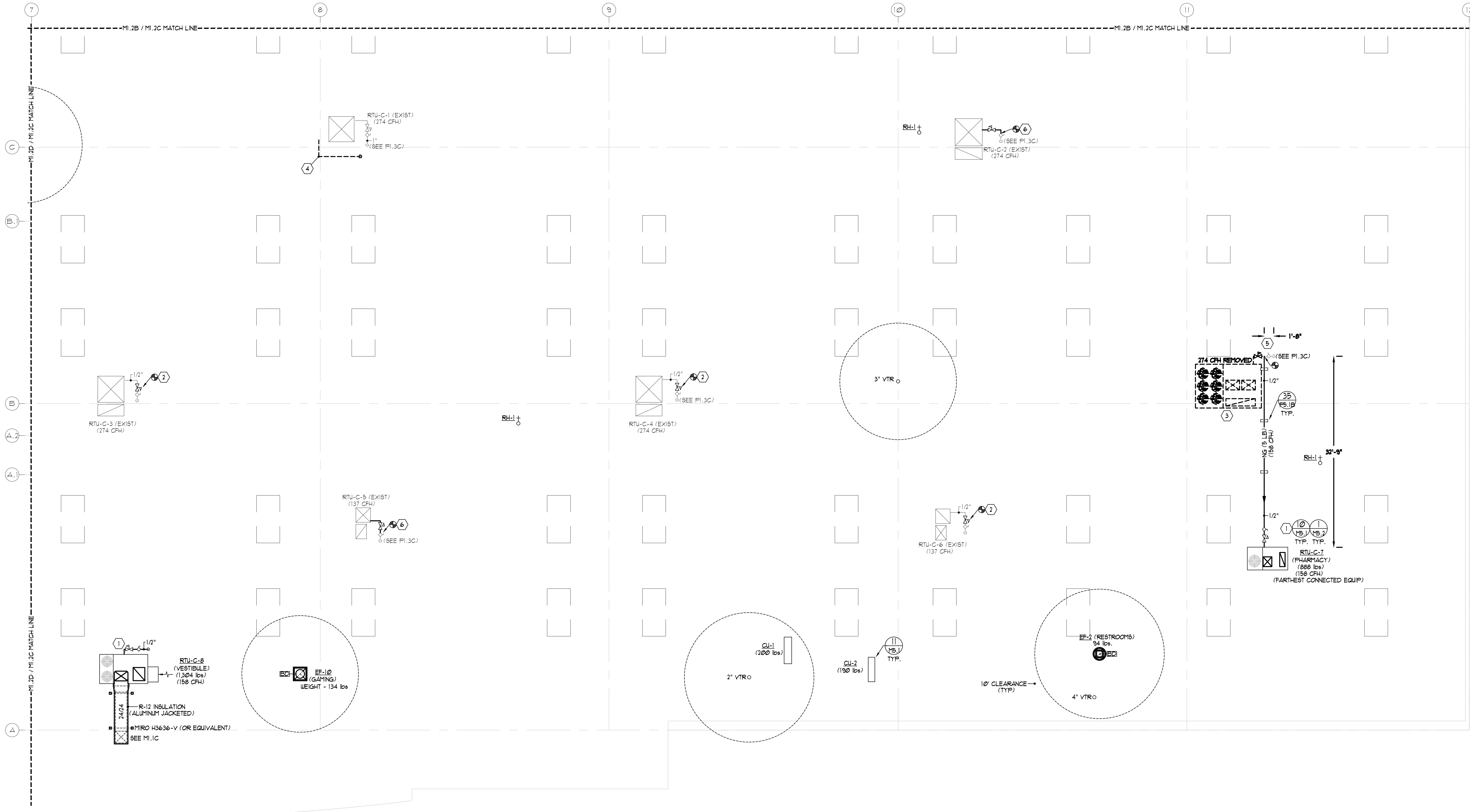
MECHANICAL ENGINEERS
 PVE INC. 801.866.3166

DRWN BY: BMS
 DATE: 11.22.24
 BID SET

PVE PROJECT NO.: 2400414

SHEET NO.: M1.2D





- MI.2C KEYED NOTES:**
- 1 PROVIDE / INSTALL VALVE, 5 LB PRESSURE REGULATOR, AND ALL FINAL CONNECTIONS TO EQUIPMENT BY OWNER.
 - 2 PROVIDE / INSTALL NEW 5 LB REGULATOR AT EXISTING EQUIPMENT.
 - 3 REMOVE RTU, CAP CURB, RELOCATE RTU TO NEW PICK-UP AREA. SEE MI.2D.
 - 4 REMOVE ABANDONED PIPING AND CAP.
 - 5 REMOVE NATURAL GAS CONNECTIONS TO UNIT BEING REMOVED.
 - 6 CONNECT TO EXISTING NG PIPING. PROVIDE / INSTALL A PRESSURE REGULATOR (5 lb to EQUIP. REQUIREMENTS) AND ALL FINAL CONNECTIONS TO EXISTING RTU.
- GENERAL NOTES:**
- 1 SEE P2.1C FOR RTU CONDENSATE REMOVAL TRAPPED LINES TO BE PROVIDED WITH PROTECTED VENT.
 - 2 GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
 - 3 GENERAL CONTRACTOR SHALL REMOVE ALL UNUSED / ABANDONED ITEMS FROM PROJECT.

MECHANICAL ROOF PLAN - "C"
 SCALE: 1/8" = 1' - 0"
 0' 4' 8' 12' 16'



PRESCOTT MUIR ARCHITECT
 171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101
 TEL: 801.521.9111 FAX: 801.521.9158

MECHANICAL ROOF PLAN - "C"

SMITH'S FOOD AND DRUG
 STORE #303
 560 N STEPHANIE ST
 HENDERSON, NV

MECHANICAL ENGINEERS
 PVE INC. 801.359.3158

DRAWN BY: BMS
 DATE: 11.22.24
 BID SET

PVE PROJECT NO.: 2400414

SHEET NO.: M1.2C